



TÜRKİYE CÜMHURİYETİ

MAARİF BAKANLIĞI

İSTANBUL KANDİLLİ RASATHANESİ

1938

(Ekim, Kasım, Aralık)

Meteoroloji, Sismoloji ve
Miknatis Rasatları

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İSTANBUL

MAARİF MATBAASI

I — Meteoroloji (Météorologie)

Yakup Elbek

Cetvel, grafik ve işaretlerin izahları 5 ve 8 numaralı mecmualarda bulunduğundan tekrar yazılmasına lüzum görülmemiştir.

Hâdiselerin aylık seyirleri

EKİM

Basınç — Birinci gün saat 10/30 da (767.8 mm.) olmak üzere ayın mutlak maksimumundan geçtikten sonra çok hafif surette düşerek 6-7 gecesi 761 mm. minimum kıymeti alan barometre 7 - 8 gecesi 764.4 mm. ye çıkmış, 8 inci gün saat 11 den itibaren düşmeğe başlamış, 9 uncu gün sabahı 760.0 mm. minimum kıymetinden geçerek 13 üncü gün saat 10/50 de 767.2 mm. maksimum kıymeti almıştır. Bundan sonra düşerek 15 inci gün 762.8 mm. olmuşsa da tekrar yükselerek 17 nci gün saat 11 de 767.2 mm. olmak üzere bir maksimum daha yapmış, 22 nci gün saat 13 te (747.5) mm. olmak üzere ayın mutlak minimumundangeçmiş, 26 nci gün 766.5 mm. yi bulmuştur. Bundan sonra yavaş yavaş düşerek 31 inci gün 757.2 mm. olmuştur. 21 inci gün saat 16/30 dan 23 üncü gün saat 6 ya kadar hafif grenler görülmüştür. en çok sapma (écarte extrême) 19.7 mm. dir.

Bu ayın ortalaması 762.6 mm. olup normal [762.8 mm.] den 0.2 mm. eksiktir. 28 yıllık rasatlarda bu aydaki ortalamaların maksimumu 1911 de 765.5 mm. ve minimumu da 1914 te 760.4 mm. dir.

Sıcaklık derecesi — Bu ayın mutlak maksimumu 30 uncu gün saat 14/15 te 26°.9, mutlak minimumu da 23 üncü gün saat 5/15 te 5°.5 olup en çok sapma (écarte extrême) 21°.4 tür. Bu ayın ortalaması 16°.1 olup normal [15°.9] dan 0°.2 fazladır. Bu ayın maksimumlar ortalaması 20°.5 tir ki normal [19°.9] dan 0°.6 fazla, minimumlar ortalaması da 12°.5 tir ki normal [12°.9] dan 0°.4 eksiktir. 28 yıllık rasatlarda bu ay için mutlak maksimum olarak 1927 yılı birinci gün 32°.7 ve mutlak minimum olarak ta 1920 yılı 30 uncu gün 0°.3 görülmüştür.

Bağıl nem — Bu ayın minimum rutubeti 11 inci gün saat 16/30 da % 23 tür. Bu ayın ortalaması % 74 olup normal [% 75] ten % 1 eksiktir. 28 yıllık rasatlarda bu aydaki ortalamaların maksimumu 1920 yılı % 81 ve minimumu da 1923 yılı % 66 dır.

Çökelek — Cetvelinde görüldüğü üzere bu ay altı gün yağmurlu geçmiş ve bu müddet zarfında 57 milimetre yağmur yağmıştır. Bu aydaki çökelek çiğ ve sis ile birlikte 58.0 mm. olmuştur ki (normal) [81.0 mm.] den 23.0 mm. eksiktir. 28 yıllık rasatlarımız içinde 1930 ve 1937 senelerinde 208.6 ve 200.7 mm. gibi çok yağışlı ekim ayları görülmüştür. 1932, 1913 ve 1911 senelerinde sırasıyle 6.1, 11.0 ve 14.0 mm. gibi az yağışlı ekim ayları kaydedilmiştir.

Şiddetli ve sürekli yağışlar

Gün	Miktarı	Zaman ve müddeti	Ortalama şiddeti	Maksimum şiddeti	Maksimum şiddeti	
					zaman ve müdde	
	mm.	h/m ilâ h/m	mm/min.	mm/min.	h/m ilâ h/m	
21—22	21.1	16/30 — 4/50	0.03	0.12	24/00 — 24/20	
22	{	11.3	13/26 — 16/00	0.07	0.13	14/00 — 14/10
		4.8	18/44 — 19/40	0.09	0.25	19/10 — 19/20
24—25	11.6	14/45 — 2/30	0.02	0.31	14/49 — 14/58	

Fırtınalı günler: (*)

Gün	Devam fasılası		Maksimum hız	Yönü
	h/m	ilâ h/m		
9	11/30	— 12/30	16	NNW
22	3/45	— 5/30	17	NNW

Toprağın sıcaklığı — 5, 10, 20 ve 50 sm. derinliktekilerin tahavvülü her aydakini aynidir. Bir ve iki metredekiler mevsim seyrine uyarak muntazaman düşmüşlerdir. Bir metredeki ay başında 19°0 iken ay sonunda 16°8 ve iki metredeki ay başında 19° iken ay sonunda 17°8 olmuştur.

KASIM

Basınç — 758 ile 760 mm. arasında devam etmekte iken üçüncü gün sabahından itibaren yükselmeğe başlayan barometre 4 üncü gün 766.6 mm. ye çıkmış, 6 ncı gün saat 12/50 de (753.1) mm. olmak üzere ayın mutlak minimumundan geçerek 11 inci gün 772.7 mm. ye kadar çıkmış, 12 ncı gün 769.1 mm. ye inmişse de tekrar yükselmeğe başlamış, 15 inci gün saat 9 da (774.0) mm. olmak üzere ayın mutlak maksimumunu yapmış ve 18 inci gün saat 16 da 764 mm. ye düşmüştür. Bundan sonra yükselerek 21 inci gün 771.8 mm. maksimum kıymetini almış, 23 ücü gün akşamı 758.5 mm. minimum kıymetten geçmiş, 27 ncı gün 768 mm. ye kadar çıkmış, 29 uncu gün 762.5 mm. ye inmiş ve 30 uncu gün akşamına kadar bu civarda seyretmiştir. En çok yapma 20.9 mm. dir.

Bu ayın ortalaması 765.7 mm. olup normal (764.0 mm.) den 1.7 mm. fazladır. 28 senelik rasatlarda bu aydaki ortalamaların maksimumu 1920 de 769.2, minimumu de 1928 de 760 mm. dir.

Sıcaklık derecesi — Bu ayın mutlak maksimumu 2 ncı gün saat 11/50 de 22°8 ve mutlak minimumu de 7 ncı gün saat 00/20 de 4°3 olup en çok sapma 18°5 tir. Bu ayın ortalaması 11°7 olup normal (12°0) dan 0°3 eksiktir. Bu ayın maksimumlar ortalaması 14°9 dur ki normal (15°3) ten 0°4 eksik, minimumlar ortalaması de 8°8 dir ki normal (9°5) ten 0°7 eksiktir, 28 yıllık rasatlarda bu ay için mutlak maksimum olarak 1917 yılı 13 üncü gün 27°3 ve mutlak minimum olarak ta 1914 yılı 30 uncu gün — 1°8 görülmüştür.

Bağıl nem — Bu ayın minimum nemi 23 üncü gün saat 21/45 te % 31 dir. Bu ayın ortalaması % 74 olup normal (% 77) den % 3 eksiktir. 28 yıllık rasatlarda bu aydaki ortalamaların maksimumu 1924 yılı % 86, minimumu de 1923 yılı % 67 dir.

Çökelek — Cetvelinde görüldüğü üzere bu ay 6 gün yağmurlu geçmiş ve bu müddet zarfında 16,4 mm. yağmur yağmıştır ki normal (98,4 mm.) den 82,0 mm. eksiktir. 1926 ve 1927 senelerinde sırasıyla 0.2 ve 5.9 mm. olmak üzere bu senekine nazaran az yağışlı kasım ayları görülmüştür. Şiddetli olarak 6 ncı gün saat 6/50 ile 13/40 arasında 10.6 mm. yağmıştır ki ortalama şiddeti dakikada 0.03 mm. dir. Bu yağmurun maksimum şiddeti dakikada 0.70 mm. olmak üzere saat 8/19 ile 8/22 arasında vuku bulmuştur.

(*) Rüzgârın hızı saniyede 13 metreyi geçerse o gün fırtınalı gün itibar olunur.

Fırtınalı günler: (*)

Gün	Devam fasılası h/m ilâ h/m	Maksimum hızı m/s	Yönü
6-7	21/30 — 5/15	21	NNW
7	7/45 — 15/15	16	NNW
23	9/30 — 20/30	14	SSE, SE

Toprağın sıcaklığı — 5, 10, 20 ve 50 sm. derinliktekilerin tahavvülü her aydaki ibidir. Bir ve iki metre derinliktekiler mevsim seyrine uyarak muntazaman düşmüşlerdir. Bir metredeki ay başında 16°.9 iken ay sonunda 13°.8, 2 metredeki ay başında 17°.8 iken ay sonunda 15°.8 olmuştur.

ARALIK

Basınç — Birinci gün 765 mm. ye kadar çıkan barometre ikinci günden itikaren düşmeğe başlamış, 3 üncü gün 755.9 mm. ye inmiş, 4 üncü gün 758.8 mm. ye kadar çıkmış, 5 inci gün 756.5 mm. minimumdan geçerek 13 üncü gün saat 10/30 da (771.6) mm. olmak üzere ayın mutlak maksimumunu yapmış, 15 inci gün 764.7 mm. ye inmiş ve 17 nci gün akşamına kadar 766.1 ile 764.4 mm. arasında devam etmiştir. Bundan sonra yükselerek 18 inci gün akşamı 768.7 mm. ye çıkmış 19 - 20 gecesi 759.9 mm. ye düşmüş, 20 - 21 gecesi 754.9 mm. ye kadar yükselmişse de biraz hızlı düşerek 22 nci gün 753 mm. minimum kıyafetten geçmiş, 24 sabahı 763 mm. olmuştur. Bundan sonra düşerek 24 - 25 gecesi 756.4 mm. olmuş, 25 sabahı saat 4/30 ile 7 arasında küçük grenler yapmak üzere yükselmeğe başlamış, 27 nci güne kadar 759 ile 762 mm. arasında seyretmiştir. 27 nci gün öğleden sonra düşmeğe başlayarak 29 uncu gün sabahı 751.3 mm. olmuşsa da saat 13 ten itibaren tekrar yükselmiş 29 - 30 gecesi 756.7 mm. ye çıkmıştır. Sonra yavaş yavaş düşerek 31 inci gün saat 5/10 da (749.9) mm. olmak üzere ayın mutlak minimumundan geçmiş ve 31 gecesi 753.8 mm. olmuştur. En çok sapma 21.7 mm. dir.

Bu ayın ortalaması 791.6 mm. olup normal (763.5 mm.) den 19 mm. eksiktir. 28 senelik rasatlarda bu aydaki ortalamaların maksimumu 1932 de 770.3, minimumu da 1923 te 759.8 mm. dir.

Sıcaklık derecesi — Bu ayın mutlak azamisi 2 nci gün saat 12/00 de 20°.0, mutlak minimumu da 18 inci gün saat 17/00 de 0°.7 olup en çok sapma 20°.1 dir. Bu ayın ortalaması 10°.0 olup normal (7°.7) den 0°.3 fazladır. Bu ayın maksimumlar ortalaması 10°.8 dir ki normal (10°.4) ten 0°.4 fazla, minimumlar ortalaması da 5°.8 dir ki normal (5°.3) ten 0°.5 fazladır. 28 yıllık rasatlarda bu ay için mutlak maksimum olarak 1926 yılı 3 üncü gün 21°.4 ve mutlak minimum olarak ta 1933 yılı 24 üncü gün — 8°.9 görülmüştür.

Bağıl nem — Bu ayın minimum nemi 2 nci gün saat 13/20 de % 38 dir. Bu ayın ortalaması % 86 olup normal (% 80) den % 6 fazladır. 28 yıllık rasatlar içinde ortalaması en büyük olan nemli aralık ayı bu senenindir.

Çökelek — Cetvelinde görüldüğü üzere 26 gün yağışlı geçmiş ve bu müddet zarfında 236 mm. yağmur yağmıştır ki normal (109.2 mm.) den 14.4 mm. fazladır. 1923, 1925 ve 1933 yıllarında sırasıyla 234.0, 228.7 ve 207.1 mm. olmak üzere çok yağışlı aralık ayları görülmüştür.

(*) Rüzgârın hızı saniyede 13 metreyi geçerse o gün fırtınalı gün itibar olunur.

Şiddetli ve sürekli yağışlar

Gün	Miktarı	Zaman ve müddeti		Ortalma şiddeti	Maksimum şiddeti	Maksimum şiddetli müddet ve zamanı	
	mm.	h/m ilâ h/m		mm/min.	mm/min,	h/m ilâ h/m	
16	38.2	{	3/30 —	Dört gün sürekli yağmur			
19			— 13/30				
21—22	8.9		17/55 — 5/30	0.02	0.10	2/00 —	2/10
26	7.2		17/40 — 23/20	0.02	0.13	17/40 —	17/47
29	18.9		4/00 — 21/00	0.02	0.08	7/35 —	8/10
31	3.8	{	0/00 — 4/30	0.01	0.06	1/20 —	1/30
	6.9		9/15 — 16/00	0.02	0.13	9/30 —	9/50

Fırtınalı günler: (*)

Gün	Devam fasılası		Maksimum hızı	Vönü
	h/m	ilâ h/m		
22	7/00	— 8/15	14	SE
25	3/30	— 7/30	19	S
	9/15	— 13/00	18	SSW, SW
29	11/30	— 15/00	18	NNW

Toprağın sıcaklığı — 5, 10, 20 ve 50 sm. derinliktekilerin tahavvülü her aydak gibidir. Bir metredeki biraz intizamsızlık göstermiştir. İki metredeki tamamen mevsim seyrine uyarak muntazaman düşmüştür. Ay başında 15°.8 iken ay sonunda 13°.4 olmuştur.

SENELİK ÖZ

Basınç — Bu senenin mutlak maksimumu şubatın 27 nci günü 778.3 mm., mutlak minimumu da şubatın 13 üncü günü 746.8 mm. olup en çok sapma 31.5 mm. dir. Bu senenin ortalaması 761.7 mm. olup normal (761.6 mm.) den 0.1 mm. fazladır.

Sıcaklık derecesi — Bu senenin mutlak maksimumu eylülün birinci günü 38°.0 mutlak minimumu da şubatın 24-25 gecesi — 4°.0 olup en çok sapma 42°.0 dir. Bu senenin ortalaması 13°.9 olup normal (13°.8) den 0°.1 fazladır. Bu senenin maksimumları ortalaması 17°.7 dir ki normal (17°.7) ye müsavi, minimumlar ortalaması da 10°.3 tür ki normal (10°.4) ten 0°.1 eksiktir.

Bağıl nem — Senenin minimum nemi 31 ağustos ve 1 eylül günleri %12 dir. Senenin ortalaması % 75 olup normal (% 74) ten % 1 fazladır.

Çökelek — Bu senenin terakümatı 902.1 mm. olup normal (740.4 mm.) den 161. mm. fazladır. 27 yıllık rasatlarda 1922 ve 1913 senelerinde 977.1 ve 962.2 mm. olmak üzere bu seneye nazaran daha fazla çökelek görülmüştür.

(*) Rüzgârın hızı saniyede 13 metreyi gecerse o gün fırtınalı gün itibar olunur.

Tarih — Date	Barometre (0° ye ve S. V. B.) 700 mm +				Hararet derecesi C° Température						Buhar tevettürü Tension de la vap. mm.				Nisbî rutubet % Humidité relat				Aktinom. C°		Güneste azamî Max. noir	Teşemmüs Insolation
	7	14	21	Vas. Moy.	7	14	21	Vas. Moy.	Az. Max	As. Min	7	14	21	Vas. Moy.	7	14	21	Vas. Moy.	Beyaz Blanc	Siyah Noir		
1	67.4	66.2	66.6	66.7	14.1	21.2	15.6	17.0	22.6	13.1	10.67	8.64	11.96	10.42	89	47	90	75	36.0	45.0	47.5	11.2
2	65.7	64.7	64.8	65.1	15.5	19.6	15.1	16.7	20.6	14.0	10.91	11.29	11.50	11.23	83	66	90	80	38.6	43.6	47.7	11.0
3	64.3	63.7	64.6	64.2	15.6	20.1	16.1	17.3	21.7	14.0	10.99	11.58	11.10	11.22	83	66	81	77	35.4	44.8	51.2	10.1
4	64.5	63.5	64.4	64.1	15.3	20.3	15.0	16.9	22.0	14.0	11.30	11.60	11.48	11.46	87	65	90	81	35.6	44.8	52.0	9.8
5	64.2	63.6	63.6	63.8	13.9	20.9	15.7	16.8	21.5	12.7	10.79	12.59	11.20	11.53	91	68	84	81	34.5	43.4	45.5	10.9
6	63.0	61.2	61.7	62.0	13.0	22.7	16.2	17.3	23.6	11.7	11.19	12.75	12.73	12.22	100	61	93	85	36.6	45.0	47.7	9.5
7	61.6	62.8	64.2	62.9	16.1	19.7	16.6	17.5	21.5	14.0	10.82	11.95	12.92	11.90	79	70	92	80	29.0	34.3	49.0	10.2
8	64.3	62.0	61.3	62.5	15.9	20.7	15.7	17.4	22.3	14.5	13.33	12.86	11.34	12.51	99	71	85	85	36.0	44.4	51.0	9.9
9	60.6	63.5	65.1	63.1	14.4	16.9	13.6	15.0	18.0	11.7	11.42	8.88	6.93	9.08	93	62	60	72	27.6	34.0	42.7	3.9
10	65.7	65.3	65.9	65.6	10.7	18.6	14.3	14.5	20.0	10.0	5.64	6.57	7.24	6.48	58	41	60	53	32.8	41.9	44.1	10.4
1 inci onluk	64.1	63.7	64.2	64.0	14.5	20.1	15.4	16.6	21.4	13.0	10.71	10.87	10.84	10.81	86	62	83	77	34.2	42.1	47.8	96.9
11	66.1	65.9	66.5	66.2	14.5	21.8	16.3	17.5	23.1	13.0	7.87	6.23	8.19	7.43	64	32	59	52	35.6	44.5	44.5	11.0
12	65.9	64.9	65.1	65.3	15.1	21.3	16.0	17.5	22.5	13.8	8.14	11.60	13.13	10.96	64	61	97	74	35.8	44.8	47.5	11.1
13	66.7	66.1	66.1	66.3	16.3	19.5	15.5	17.1	20.3	14.6	12.53	11.64	11.18	11.78	90	69	85	81	32.5	40.2	46.0	9.1
14	65.9	65.2	64.9	65.3	15.1	19.3	16.0	16.8	20.3	14.0	10.07	12.49	11.86	11.47	79	75	87	80	28.8	34.2	45.6	6.5
15	63.7	62.9	63.4	63.3	15.3	19.2	14.6	16.4	21.3	13.8	11.17	11.52	11.04	11.24	86	69	89	81	34.0	42.2	49.0	7.7
16	64.0	63.8	65.2	64.3	13.0	19.9	14.8	15.9	21.8	12.1	10.40	11.55	11.60	11.18	93	66	92	84	34.2	42.7	44.7	10.3
17	66.6	66.4	67.0	66.7	14.9	20.0	14.3	16.4	21.4	13.0	11.54	9.07	9.38	10.00	91	52	77	73	34.2	42.8	44.8	10.2
18	65.9	64.8	64.8	65.2	14.2	19.4	13.9	15.8	20.1	12.5	10.08	11.84	11.59	11.17	84	70	98	84	33.8	42.2	48.6	10.3
19	63.9	62.0	61.3	62.4	13.0	18.4	14.3	15.2	18.8	12.4	11.05	12.29	11.62	11.65	99	78	95	91	32.2	41.4	42.5	9.4
20	60.0	58.5	58.5	59.0	13.3	20.1	15.0	16.1	20.1	11.8	11.01	12.17	12.73	11.97	96	70	100	89	32.6	40.7	43.3	8.4
2 inci onluk	64.9	64.1	64.3	64.4	14.5	19.9	15.1	16.5	21.0	13.1	10.39	11.04	11.23	10.89	85	64	88	79	33.4	41.6	45.7	94.0
21	58.9	57.8	56.2	57.6	13.9	13.6	13.3	13.6	15.5	11.2	10.92	10.44	11.14	10.83	92	90	98	93	16.5	18.0	39.0	0.9
22	50.6	47.8	50.9	49.8	13.1	11.8	8.2	11.0	14.6	7.8	10.86	10.21	7.79	9.62	97	99	96	97	12.6	13.0	24.5	0.0
23	55.1	56.7	59.8	57.2	6.1	12.4	12.5	10.3	14.4	5.5	5.77	6.57	5.70	6.01	82	61	52	65	21.2	27.2	39.2	5.4
24	62.2	61.1	62.8	62.0	11.4	14.6	10.0	12.0	16.0	8.2	6.12	7.81	7.41	7.11	61	63	81	68	22.1	26.6	36.4	2.5
25	62.1	61.5	63.5	62.4	8.7	12.0	9.5	10.1	14.7	8.2	7.27	7.04	7.71	7.34	87	67	87	80	15.6	17.6	35.5	1.3
26	65.6	65.8	64.8	65.4	9.3	15.3	13.1	12.6	16.3	8.8	7.37	8.78	8.20	8.12	84	67	73	75	29.4	38.0	41.0	7.9
27	63.4	62.4	61.6	62.5	13.8	18.0	17.3	16.4	20.0	11.4	9.15	9.16	10.11	9.47	78	60	68	69	26.2	31.3	40.5	3.9
28	61.5	61.2	61.2	61.3	20.3	22.5	21.7	21.5	25.1	18.0	8.34	8.42	8.34	8.37	47	41	43	44	26.2	29.0	46.2	3.7
29	61.0	59.8	60.4	60.4	18.2	26.3	20.9	21.8	26.8	17.2	8.24	10.00	8.26	8.83	53	40	44	46	39.0	47.4	47.5	8.0
30	59.9	58.7	58.7	59.1	18.2	25.3	20.7	21.4	26.9	17.2	10.42	10.74	7.83	9.66	67	44	43	51	38.2	40.2	47.6	9.2
31	57.7	58.3	58.3	58.1	17.5	20.7	16.7	18.3	21.8	13.9	9.05	10.79	10.20	10.01	60	59	72	64	30.2	36.4	44.4	6.4
3 üncü onluk	59.8	59.2	59.8	59.6	13.7	17.5	14.9	15.4	19.3	11.6	8.50	9.09	8.43	8.67	73	63	69	68	25.2	29.5	40.2	49.4
Yekûn Aylık Vasatî	62.8	62.2	62.7	62.6	14.2	19.1	15.1	16.1	20.5	12.5	9.82	10.29	10.11	10.07	81	63	79	74	30.7	37.5	44.4	240.2

Oktobre 1938

Tarih — Date	Rüzgâr — Vent																	Sehap—Nuage	Yağmur ^{7 den} mm. Pluie ^{7 ye}	Kar ^{7 den} cm. Neige ^{7 ye}	Mülâhazat Remarques	
	Tekerrür — Nombre de fréquence								Tekessür [*]							Sûrat Vitesse m/s.						
	N	NE	E	SE	S	SW	W	NW	N	NE	E	SE	S	SW	W		NW					Sakin
1	2	3	1	—	—	—	—	—	25	71	4	—	—	—	—	—	—	3.2	0.0	—		
2	2	2	1	—	—	—	—	—	48	48	4	—	—	—	—	—	—	4.5	0.7	—		
3	1	2	2	—	—	—	—	—	25	44	20	—	—	—	—	—	11	4.0	1.7	—		
4	1	2	3	—	—	—	—	—	33	9	36	—	—	—	—	—	22	3.3	2.7	—		
5	1	1	2	1	—	1	1	1	4	2	18	8	—	6	1	2	59	1.4	0.3	—		
6	2	2	2	—	—	1	2	—	15	9	15	—	—	2	10	—	49	1.2	3.0	—		
7	4	5	1	—	—	—	—	—	41	26	4	—	—	—	—	—	29	1.6	1.0	—		
8	2	4	2	1	1	—	1	1	28	20	19	6	3	—	7	2	15	1.7	3.3	—		
9	3	—	—	—	—	—	—	3	66	—	—	—	—	—	—	13	21	3.5	6.7	—		
10	—	—	—	—	2	3	1	1	—	—	—	—	73	23	1	3	—	2.0	1.3	—		
inci mluk	18	21	14	2	3	5	5	6	28	23	12	1	8	3	2	2	21	2.6	2.1	—		
11	—	—	2	1	1	1	—	—	—	—	40	10	2	23	—	—	25	2.7	0.0	—		
12	3	4	—	—	—	—	—	—	41	55	—	—	—	—	—	—	4	3.5	0.0	—		
13	4	3	—	—	—	—	—	—	29	71	—	—	—	—	—	—	—	5.6	3.3	—		
14	2	2	—	—	—	—	—	—	15	75	—	—	—	—	—	—	10	4.0	5.0	—		
15	4	5	3	—	—	—	—	—	17	61	18	—	—	—	—	—	4	2.8	3.0	—		
16	3	3	—	—	—	—	—	—	52	46	—	—	—	—	—	—	2	3.8	0.7	—		
17	1	1	—	—	—	—	—	—	4	94	—	—	—	—	—	—	2	4.0	0.0	—		
18	4	3	—	—	—	—	—	—	56	44	—	—	—	—	—	—	—	4.0	1.0	—		
19	3	3	—	—	1	—	—	—	35	40	—	—	4	—	—	—	21	4.2	1.0	—		
20	2	—	—	—	1	1	—	1	17	—	—	—	1	49	—	8	25	2.0	0.7	—		
2inci mluk	26	24	5	1	3	2	—	1	26	49	6	1	1	7	—	1	9	3.7	1.5	—		
21	4	—	—	—	—	—	—	4	72	—	—	—	—	—	18	10	—	5.1	10.0	21.1		
22	2	—	1	—	1	1	2	2	25	—	2	—	6	2	34	31	—	6.1	10.0	20.0		
23	—	—	—	1	2	4	2	1	—	—	—	6	17	52	14	6	5	7.8	6.7	3.7		
24	2	1	1	1	1	1	2	2	13	8	21	6	13	2	6	4	27	3.9	6.0	11.6		
25	2	3	2	1	—	—	—	—	16	8	34	4	—	—	—	—	38	3.6	5.7	0.1		
26	—	—	—	2	2	1	—	—	—	—	—	24	42	22	—	—	12	2.1	7.3	—		
27	—	—	—	—	4	3	—	—	—	—	—	—	85	15	—	—	—	4.4	6.7	—		
28	—	—	—	—	2	2	—	—	—	—	—	—	68	3	—	—	29	4.1	7.0	—		
29	—	—	—	2	3	1	—	—	—	—	—	32	17	1	—	—	50	1.3	2.3	—		
30	—	—	1	3	2	—	—	—	—	—	36	38	20	—	—	—	6	1.4	0.0	—		
31	—	—	—	5	8	3	—	—	—	—	—	44	24	18	—	—	14	1.2	3.7	1.3		
3inci mluk	10	4	5	15	25	16	6	9	12	1	8	14	27	11	5	5	17	41.0	5.9	57.8		
Yekûn Aylık Vasatı	54	49	24	18	31	23	11	16	22	23	9	6	12	7	2	3	16	3.4	3.3	57.8		

[*] Bir gün zarfında her hangi bir cihetten esen rüzgârın devam müddetinin gün müddetine nisbetinin yüzdesi —
 Pourcentage de la proportion de la durée de chaque direction du vent à 24 h.

Tarih — Date Tarikh	Barometre (O°) e ve S. V. B.) 700 mm +				Hararet derecesi C° Température						Buhar tevettürü Tension de la vap. mm.				Nisbi rutubet % Humidité relat.				Aktinom. C°		Güneş azami Max. noir	Teşemmüs Insolation
	7	14	21	Vas. Moy.	7	14	21	Vas. Moy.	Az. Max	As. Min	7	14	21	Vas. Moy.	7	14	21	Vas. Moy.	Beyaz Blanc	Siyah Noir		
1	59.6	59.2	59.9	59.6	15.6	20.4	15.9	17.3	21.5	14.3	9.51	9.81	8.82	9.38	72	55	66	64	31.6	38.5	44.0	7.0
2	59.4	58.4	58.2	58.7	13.5	19.3	15.0	15.9	22.8	13.0	10.24	9.49	10.13	9.95	89	57	80	75	25.0	28.8	48.5	3.0
3	59.2	59.7	62.6	60.5	14.5	19.0	12.9	15.5	19.0	12.5	11.50	11.93	10.72	11.38	93	73	97	88	32.7	37.9	41.5	1.0
4	65.5	66.0	66.2	65.9	12.3	15.0	11.3	12.9	15.5	10.0	8.92	8.83	8.77	8.84	83	69	88	80	29.0	37.6	42.0	5.0
5	63.5	59.9	58.0	60.5	9.7	14.2	13.2	12.4	16.0	8.2	8.28	8.54	9.13	8.65	92	70	81	81	19.2	22.0	41.0	6.0
6	54.0	54.1	57.3	55.1	13.9	11.0	9.0	11.3	14.0	6.3	10.79	8.71	5.98	8.49	91	89	70	83	11.8	12.4	25.2	0.0
7	60.6	61.6	64.1	62.1	8.0	9.3	8.4	8.6	9.8	4.3	4.43	4.51	4.10	4.35	56	52	51	53	19.8	26.6	30.5	2.0
8	65.3	64.0	64.5	64.6	8.1	11.8	10.1	10.0	13.2	5.7	5.86	6.12	6.95	6.32	72	59	74	68	18.4	22.0	35.8	6.0
9	64.5	63.9	65.6	64.7	9.7	13.9	9.9	11.2	15.2	8.7	7.24	8.72	8.29	8.08	81	74	91	82	21.2	25.6	41.6	5.0
10	68.4	69.3	71.3	69.7	9.3	15.3	12.1	12.2	16.5	8.7	7.37	10.22	8.79	8.79	84	79	83	82	26.0	32.8	41.5	8.0
1 inci onluk	62.0	61.6	62.8	62.1	11.5	14.9	11.8	12.7	16.4	9.2	8.41	8.69	8.17	8.42	81	68	78	76	23.5	28.4	39.2	48.0
11	72.3	71.4	70.8	71.5	10.6	12.7	9.7	11.0	13.8	9.0	8.11	7.22	7.59	7.64	85	66	85	79	27.4	36.4	43.2	3.0
12	69.9	69.1	70.4	69.8	9.8	14.1	11.3	11.7	14.8	8.2	6.95	7.85	8.05	7.62	77	65	81	74	23.4	29.6	39.0	7.0
13	72.1	72.1	72.6	72.3	9.8	11.5	9.5	10.3	12.5	8.8	6.84	6.75	7.02	6.87	76	67	79	74	13.4	14.6	32.4	0.0
14	73.1	72.9	73.6	73.2	11.2	12.4	10.9	11.5	13.2	10.2	6.47	6.46	6.30	6.41	65	60	65	63	17.3	20.0	29.7	1.0
15	73.7	72.6	72.2	72.8	10.2	12.4	9.9	10.8	13.6	9.1	6.27	6.11	6.34	6.24	68	57	70	65	20.2	24.8	38.2	5.0
16	70.9	68.6	68.3	69.3	9.7	12.1	9.5	10.4	13.0	9.2	5.67	6.40	6.01	6.03	63	61	68	64	21.7	27.6	40.9	5.0
17	67.1	64.9	64.7	65.6	10.1	13.2	7.5	10.3	13.7	6.6	5.00	5.98	6.32	5.77	53	53	82	63	22.4	28.8	36.4	4.0
18	64.9	65.4	67.8	66.0	7.7	11.5	9.4	9.5	14.1	6.8	6.86	6.75	7.54	7.05	88	67	86	80	14.0	16.0	38.5	5.0
19	69.0	68.3	68.3	68.5	8.6	12.5	8.7	9.9	13.2	7.8	7.33	6.74	6.71	6.93	88	62	80	77	24.1	32.0	37.8	7.0
20	68.1	68.0	69.7	68.6	9.0	12.5	9.4	10.3	14.0	7.8	6.98	6.86	7.31	7.05	82	63	83	76	25.6	33.8	40.6	5.0
2 inci onluk	70.1	69.3	69.8	69.8	9.7	12.5	9.6	10.6	13.6	8.4	6.65	6.71	6.92	6.76	75	62	78	72	20.9	26.4	37.7	47.0
21	70.7	70.3	68.7	69.9	8.0	11.7	8.2	9.3	13.1	7.0	7.34	6.98	6.12	6.81	91	68	75	78	14.2	16.0	31.8	3.0
22	65.6	63.0	61.7	63.4	7.9	14.4	13.8	12.0	15.2	5.4	6.19	4.68	5.04	5.30	77	37	42	52	22.4	35.4	35.5	9.0
23	60.3	58.7	59.1	59.4	13.2	17.7	15.6	15.5	18.2	12.2	5.52	5.84	4.21	5.19	49	39	32	40	30.0	37.8	38.4	7.0
24	60.8	62.6	64.9	62.8	13.6	14.5	10.7	12.9	18.8	10.2	5.28	8.36	9.62	7.75	45	68	100	71	17.8	20.0	41.0	3.0
25	64.9	65.0	65.9	65.3	10.4	12.7	10.0	11.0	13.6	9.3	8.59	8.81	7.99	8.46	91	80	87	86	26.5	35.2	36.0	7.0
26	66.9	67.0	67.5	67.1	10.8	11.7	10.5	11.0	12.8	9.8	8.47	8.53	8.05	8.35	86	83	85	85	15.0	16.4	19.2	0.0
27	68.0	67.9	68.4	68.1	9.3	11.5	10.7	10.5	12.9	8.8	7.25	7.69	8.05	7.66	83	76	84	81	13.8	15.0	18.8	0.0
28	67.7	66.1	65.9	66.6	11.1	12.0	10.6	11.2	13.2	9.8	8.05	8.35	7.99	8.13	82	80	84	82	16.6	18.0	24.4	0.0
29	64.7	63.6	64.3	64.2	9.5	14.6	10.1	11.4	14.9	8.8	7.71	9.33	8.76	8.60	87	75	95	86	20.6	24.8	38.1	1.0
30	64.6	63.8	64.6	64.3	10.2	14.6	12.1	12.3	15.0	8.8	8.94	8.94	7.82	8.57	96	72	74	81	26.4	34.0	35.8	6.0
3 inci onluk	65.4	64.8	65.1	65.1	10.4	13.5	11.2	11.7	14.8	9.0	7.33	7.75	7.33	7.48	79	68	76	74	20.3	25.3	31.9	39.0
Yükün Aylık Vasatı	65.8	65.2	65.9	65.7	10.5	13.7	10.9	11.7	14.9	8.8	7.47	7.72	7.48	7.56	78	66	77	74	21.6	26.7	36.2	35.0

Novembre 1938

Tarih — Date	Rüzgâr — Vent																Sehâp — Nuage	Yagmur ^{7 den} _{7 ye} plue mm.	Kar ^{7 den} _{7 ye} Neige cm.	Mülâhazat	
	Tekerrür — Nombre de fréquence								Tekessür [*]												
	N	NE	E	SE	S	SW	W	NW	N	NE	E	SE	S	SW	W	NW					Sakin m/s.
1	—	—	1	2	—	1	—	—	—	—	24	29	—	24	—	—	23	3.5	3.7	—	•
2	1	—	1	1	3	2	1	1	6	—	15	3	27	28	4	2	15	2.3	7.7	0.8	•
3	2	1	—	—	—	2	1	1	73	4	—	—	—	21	1	1	—	3.1	4.7	—	•
4	2	1	—	—	—	—	—	—	41	3	—	—	—	—	—	—	26	3.8	4.0	—	•
5	—	—	—	—	2	7	3	—	—	—	—	—	7	75	16	—	2	2.0	6.3	—	p III
6	2	—	—	—	—	2	3	2	73	—	—	—	—	7	11	8	1	8.4	9.0	13.6	•
7	3	—	—	—	—	—	—	2	67	—	—	—	—	—	—	4	29	14.9	6.0	—	•
8	1	—	1	1	—	—	—	1	17	—	4	14	—	—	—	25	40	2.3	6.7	—	•
9	—	—	—	1	—	1	—	1	—	—	—	23	—	17	—	4	56	1.5	5.3	—	•
10	3	3	1	1	—	—	—	—	59	29	4	2	—	—	—	—	6	2.2	4.0	—	p
1 inci onluk	14	5	4	6	5	15	8	8	34	4	5	7	3	17	3	4	23	4.4	5.7	14.4	•
11	1	3	1	—	—	—	—	—	40	54	6	—	—	—	—	—	—	4.8	3.0	—	•
12	3	2	—	—	—	—	—	—	75	25	—	—	—	—	—	—	—	4.0	5.0	—	•
13	3	4	2	—	—	—	—	—	95	31	4	—	—	—	—	—	—	4.6	7.0	0.8	•
14	1	—	—	—	—	—	—	—	100	—	—	—	—	—	—	—	—	5.9	7.7	—	•
15	3	2	—	—	—	—	—	—	73	27	—	—	—	—	—	—	—	4.4	5.7	—	•
16	1	1	—	—	—	—	—	—	37	46	—	—	—	—	—	17	—	4.1	6.7	—	•
17	2	1	—	—	—	—	—	1	19	14	—	—	—	—	15	52	—	1.7	3.7	—	•
18	3	4	4	—	—	—	—	1	37	12	39	—	—	—	12	—	—	2.1	1.7	—	•
19	—	2	4	—	—	—	—	—	—	50	48	—	—	—	—	2	—	3.6	3.7	—	•
20	2	4	5	—	—	—	—	—	39	30	25	—	—	—	—	6	—	3.7	6.7	—	•
2 inci onluk	19	23	16	—	—	—	—	2	48	29	12	—	—	—	—	3	8	3.9	5.1	0.8	•
21	2	3	3	2	1	—	—	—	11	7	15	45	9	—	—	13	—	2.5	7.0	0.4	•
22	—	—	—	4	3	—	—	—	—	—	—	40	60	—	—	—	—	4.5	0.7	—	•
23	—	—	1	1	1	—	—	—	—	—	10	61	25	—	—	4	—	8.5	1.0	—	•
24	2	2	2	1	—	—	—	—	60	26	7	5	—	—	—	2	—	4.3	4.7	—	•
25	5	4	—	—	—	—	—	—	49	49	—	—	—	—	—	2	—	5.6	1.3	—	•
26	2	4	3	1	—	—	—	—	38	14	19	17	—	—	—	12	—	3.6	10.0	—	•
27	2	5	3	—	—	—	—	—	23	59	16	—	—	—	—	2	—	2.1	10.0	—	•
28	—	2	1	—	—	—	—	—	—	79	2	—	—	—	—	19	—	3.3	8.0	—	•
29	—	—	1	1	1	—	—	—	—	12	7	16	—	—	—	65	—	1.3	8.0	—	•
30	—	—	—	1	2	1	—	—	—	—	—	8	31	19	—	42	—	0.9	7.0	1.0	•
3 inci onluk	13	20	14	11	8	1	—	—	18	24	8	18	14	2	—	16	—	3.7	5.8	14	•
Yekûn Aylık Vasatı	46	48	34	17	13	16	8	10	—	—	—	—	—	—	—	—	—	—	16.6	—	•
	33	19	8	9	6	6	1	2	16	—	—	—	—	—	—	—	—	4.0	5.5	—	•

[*] Bir gün zarfında her hangi bir cihetten esen rüzgârın devam müddetinin gün müddetine nisbetinin yüzdesi. —
 Pourcentage de la proportion de la durée de chaque direction du vent à 24 h.

Tarih — Date Tarih	Barometre (O°ye ve S.V.B.) 700 mm +				Hararet derecesi C° Température						Buhar tevettürü Tension de la vap. mm.				Nisbi rutubet % Humidité relat.				Aktinom C°		Güneş azamı Max. noir	Teşemmüs Insolation
	7	14	21	Vas. Moy.	7	14	21	Vas. Moy.	Az. Max	As. Min	7	14	21	Vas. Moy.	7	14	21	Vas. Moy.	Beyaz Blanc	Siyah Noir		
	7	14	21	Vas. Moy.	7	14	21	Vas. Moy.	Az. Max	As. Min	7	14	21	Vas. Moy.	7	14	21	Vas. Moy.	Beyaz Blanc	Siyah Noir		
1	64.4	64.2	64.9	64.5	12.5	16.3	13.1	14.0	16.4	11.5	9.17	9.63	8.69	9.16	85	69	77	77	21.6	25.4	38.7	3.7
2	63.2	60.7	59.7	61.2	13.0	19.3	12.3	14.9	20.8	11.9	7.40	7.06	9.42	7.96	66	43	88	66	31.2	33.0	43.9	5.8
3	56.7	56.1	57.0	56.6	11.9	14.1	12.4	12.8	14.7	11.2	10.15	9.75	8.98	9.63	98	81	83	87	16.1	17.8	22.0	0.1
4	57.9	57.9	57.9	57.9	9.8	15.8	12.7	12.8	16.2	9.1	8.94	9.26	8.07	8.76	99	69	73	80	27.8	35.3	35.3	6.8
5	56.6	56.5	57.3	56.8	12.2	13.6	11.4	12.4	15.5	10.8	7.52	9.02	9.95	8.83	71	78	99	83	15.7	16.9	29.3	0.9
6	58.0	58.0	59.2	58.4	9.7	12.9	10.1	10.9	13.6	9.3	8.88	9.31	8.52	8.90	99	83	92	91	14.8	15.8	24.2	0.0
7	60.3	60.9	61.7	61.0	9.1	8.8	9.3	9.1	10.8	8.0	8.17	8.14	7.60	7.97	95	97	87	93	10.4	11.0	15.8	0.0
8	62.7	63.2	64.8	63.6	9.1	9.5	8.0	8.9	11.0	7.0	6.47	6.90	7.24	6.87	75	78	90	81	16.0	19.4	35.0	1.4
9	65.3	65.1	66.1	65.5	7.7	7.9	8.2	7.9	9.8	7.3	7.19	7.85	7.90	7.65	91	99	97	96	8.9	9.0	13.0	0.0
10	67.1	67.1	67.9	67.4	7.3	10.9	7.7	8.6	12.4	6.0	6.12	7.34	6.97	6.81	80	75	89	81	21.0	27.0	36.2	4.4
1inci onluk	61.2	61.0	61.7	61.3	10.2	12.9	10.5	11.2	14.1	9.2	8.00	8.43	8.33	8.25	86	77	88	84	18.4	21.1	29.3	23.1
11	68.2	67.7	69.3	68.4	7.5	9.9	7.5	8.3	12.0	6.6	6.65	5.12	5.47	5.75	86	55	70	70	19.0	25.0	34.2	4.5
12	69.3	69.6	71.0	70.0	7.4	10.4	7.7	8.5	11.4	6.7	7.03	5.70	6.75	6.49	91	60	86	79	20.2	26.6	37.3	3.5
13	71.1	70.1	70.4	70.5	7.1	8.4	5.1	6.9	9.5	4.5	4.97	4.41	6.26	5.21	66	54	96	72	11.8	13.8	32.0	2.3
14	69.1	67.6	66.9	67.9	4.5	7.2	3.9	5.2	7.8	3.0	5.59	6.07	5.84	5.83	89	80	97	89	15.8	20.8	31.2	2.1
15	65.6	64.8	65.0	65.1	4.5	5.0	4.9	4.8	7.6	2.8	5.69	5.81	5.86	5.79	90	89	90	90	7.2	8.5	34.7	1.8
16	64.9	65.6	66.1	65.5	3.5	2.3	3.2	3.0	5.5	2.0	5.78	5.30	4.97	5.35	99	98	86	94	4.0	4.8	7.7	0.0
17	66.0	64.1	64.2	64.8	2.6	3.8	3.4	3.3	4.4	2.1	4.02	5.31	5.54	4.96	92	89	95	92	5.8	6.8	10.9	0.0
18	65.4	66.5	67.5	66.5	1.3	1.6	1.5	1.5	2.8	0.7	5.03	5.14	5.10	5.09	100	100	100	100	3.2	3.8	11.4	0.0
19	15.4	62.3	60.6	62.8	3.9	6.4	8.1	6.1	8.4	2.0	5.84	6.54	6.84	6.41	97	91	85	91	7.7	8.3	9.7	0.1
20	61.9	63.7	64.5	63.4	7.3	5.0	6.6	6.3	9.5	4.5	7.43	6.53	7.29	7.08	97	100	100	99	6.2	6.8	7.6	0.0
2inci onluk	66.7	66.2	66.6	66.5	5.0	6.0	5.2	5.4	7.9	3.5	5.80	5.59	5.99	5.80	91	82	91	88	10.1	12.5	21.7	14.3
21	64.5	61.9	60.4	62.3	5.8	9.9	8.4	8.0	10.2	5.2	6.90	8.88	8.13	7.97	100	97	99	99	17.2	21.2	25.5	0.2
22	55.1	53.2	55.2	54.5	10.5	12.2	10.9	11.2	13.5	9.0	8.29	7.28	7.69	7.75	88	68	79	78	14.6	16.0	32.0	1.0
23	59.7	61.4	62.6	61.2	6.5	6.7	6.8	6.7	9.3	6.2	7.13	7.34	7.39	7.29	99	100	100	100	9.0	10.0	11.7	0.0
24	62.6	60.4	58.0	60.3	4.9	14.3	13.6	10.9	16.1	4.6	6.48	6.16	6.09	6.24	100	51	52	68	18.0	20.4	37.0	5.2
25	57.3	59.3	61.3	59.3	11.9	13.4	10.7	12.0	14.2	9.6	6.06	7.89	6.77	6.91	58	69	70	66	22.8	29.8	33.8	7.5
26	61.5	59.9	59.8	60.4	8.2	10.7	8.1	9.0	12.6	4.6	5.90	7.34	7.40	6.88	72	77	92	80	12.5	13.8	36.5	2.0
27	60.5	61.1	60.6	60.7	4.0	2.4	1.5	2.6	8.2	1.2	5.99	5.34	4.41	5.25	99	98	85	94	4.0	4.6	5.3	0.0
28	57.7	55.6	53.8	55.7	3.1	5.3	6.7	5.0	7.6	1.2	5.52	6.35	6.59	6.15	97	96	90	94	7.2	8.0	12.0	0.0
29	51.4	52.2	56.2	53.3	6.9	3.9	3.2	4.7	7.6	2.5	7.44	5.84	5.46	6.25	100	97	95	97	5.3	6.1	9.5	0.0
30	54.1	51.9	51.3	52.4	6.2	6.9	7.1	6.7	8.2	3.9	6.88	6.47	7.10	6.82	97	86	94	92	7.8	8.8	15.5	0.3
31	50.6	51.3	54.0	52.0	7.1	5.3	4.8	5.7	7.5	4.3	7.55	6.45	6.33	6.78	100	97	99	99	7.0	8.0	13.0	0.0
3üncü onluk	57.7	57.1	57.6	57.5	6.8	8.3	7.4	7.5	10.5	4.8	6.74	6.85	6.67	6.75	92	85	78	88	11.4	13.3	21.1	16.2
Yükün Aylık Vasatı	61.7	61.3	61.8	61.6	7.3	9.0	7.7	8.0	10.8	5.8	6.84	6.95	6.99	6.93	90	81	88	86	13.2	15.6	23.9	53.6

Décembre 1938

Tarih — Date	Rüzgâr — Vent																	Şehap—Nuage	Yağmur ^{7 den}		Kar ^{7 den}	Mülâhazat
	Tekerrür — Nombre de fréquence							Tekessür [*]								Sürat ¹⁰⁰⁰ Vitesse						
	N	NE	E	SE	S	SW	W	NW	N	NE	E	SE	S	SW	W		NW		Sakin			
1	—	—	1	2	2	1	—	—	—	—	12	48	7	14	—	—	19	2.3	7.3	—	●	
2	4	4	—	1	—	—	—	—	35	47	—	10	—	—	—	—	8	3.0	5.7	—	●	
3	2	1	—	1	—	—	—	—	10	25	—	9	—	—	—	—	56	1.9	10.0	0.8	●	
4	—	—	—	1	1	1	—	—	—	—	—	54	3	22	—	—	21	1.7	4.3	—	≡	
5	3	1	1	—	1	2	—	3	21	15	8	—	1	3	—	25	27	2.2	9.3	0.3	●	
6	3	2	1	—	—	—	—	—	81	9	2	—	—	—	—	—	8	3.8	9.7	0.4	≡ ●	
7	2	2	—	—	—	—	—	—	52	48	—	—	—	—	—	—	—	5.4	10.0	0.5	●	
8	1	—	—	—	—	—	—	—	100	—	—	—	—	—	—	—	—	6.0	10.0	4.5	●	
9	1	1	—	—	—	—	—	—	92	8	—	—	—	—	—	—	—	8.1	10.0	4.8	●	
10	1	4	2	—	—	—	—	—	15	71	14	—	—	—	—	—	—	4.2	7.7	0.6	●	
1 inci onluk	17	15	5	5	4	4	—	3	41	22	4	12	1	4	—	2	14	3.9	8.4	11.9		
11	2	1	1	—	—	—	—	—	44	40	16	—	—	—	—	—	—	4.9	8.3	—	●	
12	1	2	—	—	—	—	—	—	10	90	—	—	—	—	—	—	—	4.4	7.7	1.8	●	
13	2	4	2	—	—	—	—	—	31	63	6	—	—	—	—	—	—	5.3	7.3	2.5	●	
14	5	5	—	—	—	—	—	—	47	28	—	—	—	—	—	—	25	3.7	3.7	2.0	●	
15	1	—	—	—	—	—	—	—	100	—	—	—	—	—	—	—	—	4.6	9.3	6.5	●	
16	2	2	—	—	—	—	—	—	71	29	—	—	—	—	—	—	—	7.6	10.0	8.2	●	
17	3	2	—	—	—	—	—	—	67	33	—	—	—	—	—	—	—	5.0	10.0	7.5	●	
18	1	1	—	—	—	—	—	—	75	25	—	—	—	—	—	—	—	6.6	10.0	13.3	≡ ● * (*)	
19	1	2	1	—	—	—	—	—	25	56	19	—	—	—	—	—	—	4.7	9.3	5.2	●	
20	2	—	—	—	—	—	—	1	65	—	—	—	—	—	—	6	29	6.3	10.0	—	≡	
2 inci onluk	20	19	4	—	—	—	—	1	54	36	4	—	—	—	—	1	5	5.3	8.6	47.0		
21	5	5	3	1	—	—	—	1	23	26	18	21	—	—	—	4	8	1.9	9.3	9.1	≡ ●	
22	2	—	—	3	3	1	—	1	38	—	—	15	26	2	—	2	17	4.3	9.7	1.3	●	
23	1	2	2	1	—	—	—	—	46	9	25	4	—	—	—	—	16	4.3	10.0	2.7	≡ ●	
24	—	—	—	1	2	2	—	—	—	—	—	67	24	9	—	—	—	5.0	6.3	2.1	≡	
25	—	—	1	1	1	2	—	—	—	—	8	4	27	46	—	—	15	7.6	3.0	—	●	
26	2	3	4	4	2	2	—	1	23	16	26	13	8	8	—	4	2	2.4	7.7	7.8	∩ ≡ ●	
27	5	3	1	—	—	—	—	—	35	42	2	—	—	—	—	—	21	4.3	7.7	3.7	●	
28	4	4	—	—	—	—	—	—	48	52	—	—	—	—	—	—	—	4.1	10.0	10.2	≡ ●	
29	2	1	1	—	—	—	—	—	94	2	4	—	—	—	—	—	—	10.1	10.0	11.8	≡ ●	
30	1	4	5	1	1	—	—	1	8	13	64	1	4	—	—	4	6	4.8	10.0	7.8	●	
31	1	—	1	1	1	—	1	1	21	—	21	4	3	—	1	40	10	5.7	10.0	7.2	●	
3 üncü onluk	23	22	18	13	10	7	1	5	31	14	15	12	8	6	1	5	9	5.0	8.5	63.7		
Yekün Aylık Vasatı	60	56	27	18	14	11	1	9	41	24	8	8	3	3	1	4	9	4.7	8.5	122.6		

[*] Bir gün zarfında her hangi bir cihetten esen rüzgârın devam müddetinin gün müddetine nisbetinin yüzdesi. —
Pourcentage de la proportion de la durée de chaque direction du vent à 24 h.

(*) Kırmızı halinde

700 mm. +

Gün Jour		SAAT — HEURE																								Vasatı Moyen
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	
1	67.1	67.1	67.2	67.2	67.1	67.2	67.4	67.5	67.6	67.7	67.4	67.1	66.5	66.2	66.1	66.0	66.0	66.0	66.3	66.5	66.6	66.6	66.4	66.3	66.8	
2	66.1	66.0	65.8	65.6	65.6	65.7	65.7	65.7	65.8	66.0	65.8	65.6	65.2	64.7	64.4	64.2	64.0	64.0	64.3	64.6	64.8	64.7	64.6	64.6	65.1	
3	64.5	64.4	64.3	64.2	64.2	64.3	64.4	64.4	64.4	64.5	64.5	64.3	64.0	63.7	63.5	63.5	63.4	63.6	64.0	64.5	64.6	64.6	64.6	64.4	64.2	
4	64.3	64.2	64.0	64.0	64.0	64.3	64.5	65.0	65.1	65.3	65.0	64.5	64.2	63.5	63.2	63.3	63.5	63.7	63.9	64.2	64.4	64.5	64.4	64.2	64.2	
5	64.2	64.2	64.0	64.0	64.1	64.1	64.2	64.6	64.8	64.8	64.6	64.5	63.9	63.6	63.6	63.5	63.5	63.4	63.0	63.2	63.5	63.6	63.6	63.4	63.9	
6	63.3	63.2	62.9	62.9	62.9	62.9	63.0	63.1	63.2	63.2	63.2	62.6	61.9	61.2	61.1	61.1	61.0	61.2	61.5	61.9	61.7	61.6	61.4	61.1	62.2	
7	61.1	61.1	61.0	61.0	61.2	61.3	61.6	62.0	62.2	62.8	62.8	62.8	62.6	62.8	63.2	63.3	63.5	63.6	63.9	64.1	64.2	64.4	64.4	64.3	62.7	
8	64.2	64.3	64.2	64.2	64.2	64.3	64.3	64.3	64.2	64.1	63.6	63.6	62.4	62.0	61.9	61.8	61.6	61.5	61.5	61.3	61.3	61.2	61.2	60.8	62.8	
9	60.7	60.6	60.2	60.0	60.1	60.3	60.6	60.9	61.2	61.8	62.4	62.9	63.2	63.5	63.6	63.7	64.0	64.7	64.8	65.0	65.1	65.3	65.4	65.4	62.7	
10	65.3	65.3	65.2	65.3	65.5	65.5	65.7	65.7	65.7	65.9	66.0	6.8	65.6	65.3	65.2	65.1	65.0	65.2	65.4	65.6	65.9	66.0	65.9	65.9	65.5	
1 inci onluk	640.8	640.4	638.8	638.4	638.9	639.6	641.3	643.2	644.2	646.1	645.3	643.1	639.5	636.5	635.8	635.5	635.4	636.5	638.8	641.2	642.2	642.6	641.9	640.4	74.0	
11	66.0	66.0	65.9	65.8	65.9	65.9	66.1	66.3	66.6	66.8	66.9	66.6	66.3	65.9	65.6	65.6	65.5	65.9	66.2	66.4	66.5	66.4	66.3	66.2	66.2	
12	65.9	65.8	65.8	65.7	65.6	65.6	65.9	65.9	66.1	66.2	66.0	65.6	65.3	64.9	64.8	64.7	64.8	64.9	65.1	65.1	65.1	65.2	65.2	65.4	66.2	
13	65.4	65.5	65.5	65.7	66.1	66.4	66.7	66.9	67.0	67.1	67.2	66.9	66.5	66.1	66.0	66.0	65.9	65.9	65.9	66.0	66.1	66.1	66.2	66.2	66.2	
14	66.2	66.0	65.7	65.6	65.5	65.5	65.9	66.1	66.2	66.3	66.4	66.1	65.5	65.2	64.9	64.7	64.5	64.4	64.6	64.7	64.9	64.8	64.7	64.5	65.4	
15	64.1	63.8	63.6	63.5	63.5	63.5	63.7	63.9	63.9	63.9	64.0	63.7	63.3	62.9	62.9	62.9	63.0	63.3	63.4	63.4	63.4	63.5	63.4	63.4	63.5	
16	63.4	63.4	63.4	63.5	63.5	63.8	64.0	64.6	64.7	64.8	64.8	64.5	64.1	63.8	63.8	63.8	63.9	64.2	64.5	64.8	65.2	65.4	65.5	65.6	64.3	
17	65.7	65.7	65.7	65.8	66.0	66.3	66.6	66.8	66.9	67.1	67.2	67.0	66.6	66.4	66.4	66.3	66.4	66.5	66.7	66.9	67.0	67.0	67.0	66.8	66.5	
18	66.6	66.5	66.2	66.1	66.1	66.0	65.9	66.0	66.1	66.2	66.3	65.7	65.2	64.8	64.4	64.3	64.2	64.2	64.5	64.7	64.8	64.7	64.6	64.5	65.4	
19	64.5	64.4	64.0	63.9	63.9	63.8	63.9	64.0	64.0	64.0	64.0	64.3	63.2	62.6	62.0	61.7	61.5	61.6	61.6	61.4	61.3	61.3	61.0	60.9	62.8	
20	60.7	60.6	60.5	60.4	60.2	60.1	60.0	60.0	60.0	59.8	59.6	59.1	59.0	58.5	58.1	57.8	57.9	58.0	58.2	58.4	58.5	58.5	58.5	58.4	59.2	
2 inci onluk	648.5	647.7	646.3	646.0	646.3	646.9	648.7	650.5	651.5	652.2	652.2	648.4	644.4	640.5	638.9	637.8	637.6	638.9	640.7	641.8	642.8	642.4	641.7	641.7	64.5	
21	58.5	58.5	58.4	58.4	58.8	58.8	58.9	59.1	59.2	59.1	59.0	58.8	58.0	57.8	57.7	57.3	57.1	56.9	56.8	56.5	56.2	55.6	55.1	54.4	57.7	
22	53.8	53.0	52.3	51.8	51.3	51.1	50.6	50.8	50.2	49.6	48.8	48.4	47.5	47.8	48.0	48.0	48.5	48.8	49.6	50.0	50.9	51.0	50.9	51.0	50.2	
23	51.5	50.2	51.4	53.0	53.5	54.1	55.1	55.8	56.4	56.6	56.7	56.5	56.5	56.7	57.0	57.3	57.8	58.5	58.9	59.2	59.8	60.2	60.3	60.9	56.4	
24	61.1	61.6	61.8	61.9	62.0	62.1	62.2	62.3	62.3	62.2	62.1	62.0	61.3	61.1	61.4	61.6	61.7	62.2	62.7	62.8	62.4	62.2	62.1	62.0	62.0	
25	62.1	62.1	61.8	61.7	61.9	61.9	62.1	62.4	62.4	62.4	62.5	62.0	61.8	61.6	61.7	61.7	62.0	62.4	61.0	63.0	63.5	63.9	64.0	64.1	62.4	
26	64.3	64.6	64.6	64.7	65.2	65.3	65.6	65.9	66.0	66.1	66.2	66.3	66.2	65.8	65.5	65.3	65.3	65.2	65.0	64.9	64.8	64.8	64.4	64.3	65.3	
27	64.1	64.0	63.8	63.4	63.4	63.3	63.4	63.9	63.9	63.9	63.6	62.8	62.7	62.4	62.5	62.1	61.8	62.0	61.7	61.6	61.6	62.0	62.0	62.1	62.8	
28	62.0	61.9	61.6	61.7	61.6	61.6	61.5	61.6	61.6	61.6	61.6	61.5	61.3	61.2	61.2	61.3	61.3	61.3	61.3	61.2	61.0	61.0	61.0	61.0	61.4	
29	61.0	61.0	61.0	61.0	61.0	61.0	61.0	61.0	61.0	61.2	61.2	60.7	60.2	59.8	59.7	59.6	59.5	59.4	59.8	60.1	60.4	60.4	60.3	60.2	60.5	
30	60.2	59.9	59.8	59.7	60.0	59.9	59.9	60.0	60.1	60.2	59.8	59.2	59.0	58.7	58.7	58.5	58.4	58.4	58.5	58.6	58.7	58.7	58.5	58.4	59.2	
31	58.2	58.0	57.8	57.5	57.8	57.7	57.7	57.7	58.2	58.4	58.5	58.5	58.7	58.3	58.0	57.6	57.4	57.6	58.0	58.2	58.3	58.4	58.8	58.9	58.1	
3 inci onluk	656.8	654.8	654.3	654.8	656.5	656.8	658.0	660.9	661.3	661.3	659.8	656.7	653.2	651.2	651.4	650.3	650.8	652.7	655.3	656.1	658.2	658.4	657.5	657.4	58.6	

S A A T — H E U R E

Gün Jour	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Vasatı Moyen
1	58.9	59.1	59.8	59.4	59.3	59.3	59.6	60.0	60.1	60.2	60.2	59.6	59.3	59.2	59.3	59.3	59.3	59.5	59.6	59.5	59.9	59.9	59.7	59.4	59.6
2	59.2	59.1	59.3	59.4	59.2	59.3	59.4	59.5	59.7	59.8	59.9	59.1	58.7	58.4	58.3	58.3	58.2	58.2	58.2	58.2	58.2	58.2	58.2	58.2	58.2
3	58.2	58.2	58.0	58.2	58.4	58.7	59.2	59.6	59.7	59.8	59.8	59.7	59.7	59.7	60.0	60.5	60.9	61.4	62.0	62.3	62.6	63.0	63.4	63.9	60.3
4	64.1	64.3	64.4	64.6	65.0	65.2	65.5	66.2	66.3	66.5	66.6	66.4	66.3	66.0	96.2	66.0	66.0	66.2	66.2	66.2	66.0	65.9	65.8	65.8	65.8
5	65.6	65.0	64.5	64.1	63.9	63.7	63.5	63.3	62.8	62.4	61.8	61.3	60.5	59.9	96.6	59.1	59.1	58.6	58.5	58.3	58.0	57.5	57.1	56.7	61.0
6	56.3	55.7	55.4	54.9	54.6	54.1	54.0	53.9	53.8	53.9	53.6	53.5	53.6	54.1	53.6	53.7	54.0	55.1	56.3	56.6	57.3	57.9	57.9	58.0	55.1
7	58.2	58.7	58.8	59.2	59.7	60.2	60.6	61.0	61.0	61.2	61.6	62.0	61.6	61.6	62.1	62.5	62.6	63.2	63.6	63.9	64.1	64.2	64.4	64.5	61.7
8	64.4	64.3	64.6	64.7	64.8	65.0	65.3	65.6	65.6	65.3	65.4	65.3	64.4	64.0	64.0	63.9	63.9	64.1	64.3	64.4	64.5	64.5	64.5	64.5	64.6
9	64.5	64.5	64.4	64.2	64.2	64.4	64.5	65.0	65.1	65.2	65.2	65.0	64.6	63.9	63.9	64.0	64.2	64.8	64.9	65.1	65.6	65.8	65.9	66.1	64.8
10	66.1	66.3	66.6	67.0	67.4	67.7	68.4	69.0	69.1	69.3	69.6	69.4	69.3	69.3	69.5	69.6	70.0	70.8	71.0	71.2	71.5	71.5	71.7	71.8	69.3
1 inci onluk	615.5	615.2	615.8	615.7	616.5	617.6	620.0	623.1	623.2	623.9	623.6	620.8	618.0	616.1	616.5	616.9	618.2	621.9	624.7	625.7	627.7	628.5	628.7	628.9	62.1
11	71.8	71.8	71.9	72.0	72.2	72.1	72.3	72.5	72.6	72.6	72.7	72.1	71.6	71.4	71.3	71.2	71.1	71.0	71.0	70.9	70.8	70.8	70.8	70.7	71.6
12	70.4	70.2	70.0	70.0	70.0	69.8	69.9	70.1	70.2	70.3	70.3	69.9	69.4	69.1	69.2	69.3	69.5	69.7	69.9	70.0	70.4	70.6	70.7	70.9	70.0
13	71.1	71.2	71.3	71.3	71.5	71.8	72.1	72.5	72.6	72.8	72.5	72.2	72.1	72.1	72.1	72.2	72.3	72.4	72.5	72.6	72.6	72.7	72.7	72.7	72.2
14	72.7	72.7	72.6	72.6	72.8	72.9	73.1	73.5	73.6	73.7	73.7	73.5	73.1	72.9	72.9	72.9	73.0	73.4	73.5	73.5	73.6	73.7	73.8	73.9	73.2
15	73.7	73.6	73.4	73.3	73.3	73.4	73.7	73.9	74.0	73.8	73.7	73.4	73.0	72.6	72.6	72.5	72.5	72.5	72.5	72.4	72.2	72.2	72.2	72.2	73.0
16	71.8	71.7	71.6	71.4	71.1	71.0	70.9	70.9	70.7	70.5	70.0	69.4	68.8	68.6	68.5	68.4	68.5	68.6	68.6	68.4	68.3	68.2	68.1	68.0	69.7
17	67.9	67.8	67.6	67.4	67.2	67.1	67.1	67.1	67.1	67.0	66.5	66.0	65.4	64.9	64.8	64.7	64.6	64.5	64.5	64.6	64.7	64.2	64.6	64.5	65.9
18	64.3	64.3	64.2	64.1	64.2	64.5	64.9	65.3	65.4	65.5	65.6	65.6	65.3	65.4	65.6	65.9	66.3	66.9	67.1	67.4	67.8	67.9	68.1	68.3	65.8
19	68.3	68.4	68.5	68.8	68.8	68.9	69.0	69.1	69.3	69.3	69.5	69.0	68.6	68.3	68.1	68.1	68.1	68.0	98.0	68.1	68.3	68.4	68.5	68.6	68.6
20	68.5	68.4	68.6	68.4	68.2	68.2	68.1	68.3	68.6	68.7	68.9	68.5	97.9	68.0	68.0	68.0	68.4	68.7	69.0	69.5	69.7	69.8	69.9	70.1	68.7
2 inci onluk	700.5	700.1	699.7	699.3	699.4	699.7	701.1	703.2	704.1	704.2	703.4	699.7	695.3	693.3	693.1	693.2	694.3	695.7	696.6	697.4	698.4	699.0	699.4	699.9	69.9
21	70.3	70.3	70.4	70.5	70.5	70.6	70.7	70.9	71.3	71.5	71.6	71.0	70.7	70.3	70.2	70.1	70.0	70.0	69.6	69.2	68.7	68.6	68.5	68.2	70.2
22	67.6	67.3	67.1	66.4	66.1	65.7	65.6	65.4	65.3	65.0	64.4	63.8	63.5	63.0	62.8	62.6	62.4	62.3	62.0	61.8	61.7	61.7	61.4	61.3	64.0
23	61.0	60.7	60.5	60.2	60.2	60.2	60.3	60.4	60.5	60.2	59.7	59.1	59.0	58.7	58.5	58.6	58.7	58.8	58.9	59.0	59.1	59.2	59.3	59.4	59.6
24	59.3	59.3	59.6	59.8	59.9	60.3	60.8	61.1	61.7	62.1	62.3	62.4	62.5	62.6	62.8	63.0	63.6	63.9	64.2	64.5	64.9	65.1	65.1	65.1	62.3
25	65.0	64.9	64.9	64.9	64.9	64.9	64.9	65.1	65.6	65.7	65.7	65.5	65.2	65.0	64.9	65.0	65.2	65.6	65.8	65.9	66.0	66.0	66.0	66.3	65.4
26	66.3	66.4	66.5	66.6	66.7	66.8	66.9	67.1	67.5	67.8	67.8	67.4	67.2	67.0	66.8	66.8	66.8	67.3	67.5	67.5	67.5	67.5	67.5	67.7	67.1
27	67.6	68.2	68.2	68.1	68.0	67.9	67.8	68.2	68.3	68.5	68.4	68.0	67.9	67.9	68.1	68.3	68.5	68.6	68.6	68.5	68.4	68.3	68.3	68.3	68.2
28	68.2	68.2	68.2	68.1	68.0	67.9	67.8	67.7	67.7	67.7	67.4	66.7	66.4	66.1	66.1	66.1	66.1	66.1	66.1	66.0	65.9	65.8	65.7	65.6	66.9
29	65.3	65.1	65.0	64.8	64.8	64.6	64.7	64.8	64.8	65.0	64.7	64.4	63.8	63.6	63.6	63.6	63.6	63.7	63.9	64.1	64.3	64.4	64.3	64.3	64.4
30	64.4	64.4	64.3	64.2	64.2	64.4	64.6	64.9	64.9	64.9	64.8	64.4	64.1	63.8	63.6	63.6	63.6	64.0	64.2	64.4	64.6	64.6	64.6	64.5	64.3
3 inci onluk	655.0	654.6	654.3	653.4	653.0	653.2	654.2	655.6	657.6	658.4	656.8	652.7	650.3	648.0	647.4	647.7	648.5	650.3	650.8	651.0	651.2	650.7	650.7	650.7	65.2
Vasatı	65.7	65.7	65.7	65.6	65.6	65.7	65.8	66.1	66.2	66.2	66.1	65.8	65.5	65.2	65.2	65.3	65.4	65.6	65.7	65.8	65.9	66.0	66.0	66.0	65.7

SAAT — HEURE

SAAT — HEURE																								Vasatı Moyen	
Gün Jour	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	
1	645	645	614	644	642	641	644	644	646	648	649	649	646	642	641	643	643	645	648	649	649	648	648	647	645
2	643	641	642	641	635	633	632	633	634	631	625	620	613	607	604	603	602	600	599	598	597	594	594	589	617
3	583	582	578	568	567	567	567	567	567	568	566	566	561	563	561	559	563	564	566	567	568	570	573	575	569
4	576	577	577	577	577	578	579	582	584	586	586	584	581	579	581	581	581	581	581	580	579	579	578	578	580
5	575	574	574	568	566	565	566	567	568	569	570	570	568	565	565	565	566	566	568	570	573	573	574	574	569
6	574	575	576	576	577	578	580	582	584	585	586	583	581	580	580	583	584	585	588	592	592	593	596	596	584
7	596	597	598	598	599	601	603	607	610	613	614	612	610	609	610	611	612	613	615	616	617	618	619	620	609
8	620	621	621	621	621	624	627	632	634	638	640	636	634	632	634	638	640	641	643	646	648	649	650	650	635
9	649	648	648	649	651	651	653	654	655	656	658	656	653	651	651	651	653	654	658	660	661	663	665	666	655
10	666	667	668	668	668	669	671	672	675	681	682	679	675	671	672	675	675	677	678	678	678	679	680	680	674
1inci onluk	612.9	612.7	612.6	611.0	610.2	610.7	612.2	614.0	615.7	617.5	617.6	615.0	612.4	609.7	609.5	611.3	612.0	612.8	614.5	615.7	616.5	616.9	617.7	617.5	614
11	680	679	679	679	679	681	682	685	685	687	686	684	676	677	678	679	681	685	688	691	693	693	693	694	684
12	693	693	693	693	691	590	693	694	697	700	700	698	697	696	697	700	702	705	708	709	710	710	710	709	700
13	708	708	709	710	710	711	711	712	714	715	715	708	706	701	700	701	702	703	704	705	704	703	703	701	707
14	699	698	699	697	694	692	691	689	689	689	688	682	679	676	675	673	672	671	670	670	669	668	666	666	682
15	662	661	661	659	658	657	656	657	657	658	656	651	649	648	648	647	648	649	650	650	650	650	648	648	653
16	645	644	644	644	646	648	649	651	653	653	654	655	656	656	658	660	661	661	661	661	661	661	662	661	654
17	660	658	659	658	656	658	660	661	660	656	652	647	644	641	640	640	641	643	642	640	642	643	650	643	650
18	642	650	650	649	649	652	654	660	662	665	665	665	664	665	666	669	669	669	670	674	675	676	674	672	663
19	671	667	666	661	658	656	654	653	653	648	648	636	627	623	618	616	610	610	610	607	606	605	604	600	634
20	599	600	607	608	610	614	619	626	633	636	638	637	637	637	640	646	647	649	645	645	645	645	645	645	631
2inci onluk	665.9	665.8	666.7	665.8	665.1	665.8	666.9	668.8	670.3	670.8	670.2	666.3	663.5	662.0	662.0	663.1	663.3	664.5	664.8	665.2	665.5	665.4	665.9	663.9	666
21	643	642	647	643	640	639	645	645	646	644	643	643	624	619	617	614	612	610	610	606	604	603	595	594	626
22	580	580	576	573	561	556	551	546	544	545	545	537	534	532	534	536	539	542	545	550	552	556	559	565	557
23	569	577	582	587	589	593	597	603	608	613	617	614	614	614	616	621	621	624	626	626	627	628	626	626	609
24	626	627	630	630	628	627	626	626	626	626	621	614	609	604	600	596	595	592	588	584	580	574	569	565	607
25	565	564	586	579	569	573	573	572	584	585	587	589	591	593	596	600	603	606	610	611	613	615	616	614	591
26	614	614	618	618	616	614	615	616	617	617	614	610	604	599	599	597	596	604	602	598	596	592	591	591	607
27	590	591	591	595	596	598	605	608	611	612	618	616	613	611	612	612	610	610	610	610	606	604	602	599	605
28	595	595	590	583	580	578	577	577	576	575	568	562	557	556	555	553	552	550	549	546	546	540	535	525	563
29	524	522	523	519	514	514	514	517	518	518	518	516	518	522	533	540	543	548	557	560	562	564	564	567	533
30	564	564	564	559	550	548	541	542	546	544	537	527	520	519	517	512	509	511	511	507	513	508	501	502	530
31	504	504	503	503	500	503	506	509	511	514	512	510	511	513	519	523	526	530	534	539	540	539	538	538	518
3üncü onluk	637.4	638.0	641.0	658.9	634.3	634.3	635.0	636.1	638.7	639.3	638.0	632.7	629.5	628.2	629.8	630.4	630.6	632.7	634.2	633.7	633.2	632.6	630.0	628.6	57.6

Gün Jour	S A A T — H E U R E																								Vasatı Moyer
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	
1	14.4	14.0	14.1	13.7	13.5	13.5	14.1	15.7	17.6	18.5	20.9	21.8	22.0	21.2	20.8	20.2	18.8	16.8	16.1	15.6	15.6	14.9	14.8	14.9	16.8
2	15.4	15.3	15.7	14.9	15.0	15.0	15.5	16.4	18.5	19.0	20.0	20.3	19.8	19.6	19.8	19.3	18.3	16.6	15.7	15.2	15.1	15.0	14.9	14.7	16.9
3	15.2	14.5	14.6	14.9	14.8	14.9	15.6	16.8	18.8	21.7	20.7	20.0	20.1	20.3	21.0	20.1	18.2	17.0	16.4	16.1	15.9	15.9	15.9	15.9	17.3
4	15.4	15.2	14.0	15.0	15.0	14.9	14.9	15.3	17.2	18.1	21.3	20.7	20.5	20.0	20.3	20.0	19.5	18.8	16.1	15.6	15.0	14.9	14.6	14.7	17.0
5	14.4	14.4	14.4	14.0	14.0	13.5	13.9	17.0	18.9	19.3	20.2	20.5	20.7	20.9	21.5	20.0	19.5	16.8	15.9	15.4	15.7	15.4	15.0	14.6	16.9
6	14.4	14.8	14.3	14.7	13.8	14.5	13.0	14.4	17.7	19.8	21.8	23.0	22.5	22.7	21.8	20.2	19.8	18.0	17.9	17.1	16.2	16.2	16.4	17.0	17.6
7	16.2	16.3	15.6	16.1	15.4	15.0	16.1	16.8	18.3	19.2	20.0	20.7	20.7	19.7	20.5	19.7	18.8	17.6	17.3	16.9	16.6	15.8	15.8	16.1	17.6
8	15.3	15.0	14.9	15.0	14.5	15.4	15.9	17.5	18.0	20.0	21.5	21.5	21.0	20.7	21.1	20.8	19.0	17.2	16.5	16.0	15.7	15.7	15.0	17.5	17.5
9	14.6	14.7	14.6	14.6	14.6	14.0	14.4	15.6	15.5	17.0	16.9	18.0	17.0	16.9	17.0	16.8	16.2	15.0	14.7	13.6	13.6	13.0	12.6	13.0	15.2
10	12.4	12.0	11.6	11.8	11.5	11.5	10.7	11.8	14.0	16.8	18.0	18.8	20.0	18.6	18.2	17.6	16.9	15.2	14.9	14.8	14.3	14.1	14.1	13.5	14.7
1 inci onluk	147.7	146.2	143.8	144.7	142.1	142.1	141.5	159.2	175.4	192.6	200.7	205.1	203.8	200.7	201.7	194.2	184.3	167.0	161.5	156.2	153.9	150.9	149.8	149.4	16.7
11	13.8	13.6	13.4	13.4	13.5	13.5	14.5	16.4	18.0	19.0	19.3	20.1	21.3	21.8	22.2	22.8	21.9	19.0	17.0	16.6	16.3	16.7	16.0	15.9	17.3
12	16.5	15.8	15.0	15.9	16.0	15.0	15.1	17.5	18.4	2.00	21.8	22.0	22.5	21.3	21.2	19.8	19.6	17.7	17.0	16.4	16.0	15.9	15.9	14.9	17.8
13	16.0	16.5	16.2	16.1	16.0	15.9	16.3	17.6	19.1	19.9	20.1	20.3	19.5	19.3	19.0	18.3	17.3	16.1	15.6	15.8	15.3	15.3	15.3	15.7	17.2
14	15.8	15.0	15.1	14.8	14.7	14.7	15.1	17.1	18.1	17.9	18.2	18.8	19.4	19.3	19.0	18.0	17.4	16.2	16.0	16.0	16.0	15.9	16.0	15.7	16.7
15	15.8	15.7	15.6	15.2	15.0	15.0	15.3	16.2	17.0	18.4	18.7	21.0	20.5	19.2	19.9	19.4	17.5	15.9	15.1	14.8	14.6	14.0	14.6	14.1	16.6
16	13.5	13.7	13.4	13.5	13.4	13.1	13.0	14.8	16.9	18.0	19.0	20.7	20.1	19.9	19.3	18.7	17.6	16.3	15.5	15.0	14.8	14.7	14.7	14.6	16.0
17	14.4	14.0	13.7	13.6	13.8	14.0	14.9	15.3	17.3	19.0	20.1	20.6	20.2	20.0	19.8	18.8	17.6	16.0	15.0	14.7	14.3	13.7	13.7	13.4	16.2
18	13.1	13.2	13.3	13.5	13.5	13.5	14.2	14.6	16.7	18.0	19.0	19.0	19.1	19.4	19.1	18.7	17.1	16.0	15.0	14.6	13.9	13.8	13.7	13.7	15.7
19	13.9	13.9	13.9	13.9	13.7	13.6	13.0	13.1	14.7	15.0	16.4	17.4	18.3	18.4	18.5	18.7	17.5	16.4	15.1	14.8	14.3	14.0	14.2	13.8	15.3
20	14.1	14.3	14.3	14.0	13.0	12.6	13.3	14.3	15.8	17.2	17.3	18.6	19.5	20.1	19.9	17.3	16.0	15.5	15.4	15.2	15.0	14.6	14.3	13.7	15.6
2 inci onluk	146.9	145.7	143.9	143.7	142.5	140.9	144.7	156.9	172.0	182.4	18.99	198.5	200.4	198.9	197.9	190.5	179.5	165.1	156.7	153.9	150.7	148.8	148.4	145.2	16.4
21	12.8	12.3	12.3	12.8	13.2	13.8	13.9	14.0	13.7	14.9	14.6	15.5	14.9	13.6	13.1	12.7	13.0	13.1	13.3	13.3	13.3	13.4	13.2	13.2	13.5
22	13.2	13.2	13.1	11.8	12.1	12.7	13.1	14.0	14.4	14.4	13.0	12.3	11.8	11.8	10.8	10.4	9.8	9.3	9.1	8.3	8.2	8.3	8.3	8.6	11.3
23	11.3	10.0	6.8	6.9	6.4	5.9	6.1	7.8	10.0	11.4	12.3	12.3	13.0	12.4	12.5	12.2	10.6	10.6	12.9	12.5	12.5	12.5	12.5	12.5	10.6
24	9.7	8.9	9.3	8.8	10.0	10.9	11.4	13.2	13.1	12.2	13.1	13.0	15.0	14.6	12.0	11.3	10.9	10.7	10.9	10.9	10.0	9.9	9.6	9.7	11.2
25	9.7	8.5	8.5	8.7	8.7	8.6	8.7	9.0	10.2	11.5	13.0	13.8	14.7	12.0	10.3	10.1	10.2	9.8	9.8	9.6	9.5	8.7	9.0	9.1	10.1
26	9.6	9.8	9.0	9.8	9.4	9.5	9.3	12.3	12.5	15.3	15.3	15.0	15.3	15.3	14.7	12.7	12.5	13.1	12.0	12.3	13.1	12.8	13.0	13.2	12.4
27	13.6	14.0	14.0	14.0	14.0	13.9	13.8	15.5	16.0	16.4	17.0	18.0	19.0	18.0	18.0	17.8	17.7	18.3	18.8	17.6	17.3	18.2	19.9	19.8	16.7
28	19.5	20.0	20.5	19.3	19.6	18.3	20.3	21.0	21.3	21.8	22.4	22.7	23.6	22.5	22.3	22.2	21.4	21.0	21.0	21.2	21.7	22.0	22.3	20.0	21.2
29	19.0	19.5	19.5	19.0	18.5	19.4	18.2	19.4	21.4	20.7	24.3	24.5	25.2	26.3	26.4	25.5	23.9	23.5	22.9	21.8	20.9	20.9	20.5	20.1	21.7
30	20.4	20.1	18.5	20.1	18.6	18.6	18.2	20.0	22.2	24.0	15.3	24.3	25.3	25.3	26.2	25.1	23.6	22.8	21.8	20.9	20.7	20.5	20.0	19.9	21.8
31	19.5	19.5	18.6	17.4	16.8	16.7	17.5	19.5	20.5	21.0	21.0	19.4	20.5	20.7	21.2	20.0	18.4	17.6	18.0	17.4	16.7	18.0	16.5	17.3	18.7
3 inci onluk	158.3	155.8	150.1	148.6	147.3	148.3	150.5	165.7	175.3	183.6	191.3	191.3	198.3	192.5	187.5	180.0	172.0	169.8	169.8	166.2	163.9	165.4	164.8	163.4	15.4
Vasatı	14.6	14.4	14.1	14.1	13.9	13.9	14.2	15.5	16.9	18.0	18.8	19.2	19.4	19.1	18.9	18.2	17.3	16.2	15.7	15.4	15.1	15.0	14.9	14.8	16.2

Gün Jour	S A A T — H E U R E																								Vasatı Moyen	
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24		
1	17.3	17.8	15.3	15.3	15.5	15.7	15.6	16.2	19.4	19.5	19.4	20.4	20.2	20.4	21.5	20.0	18.7	17.6	16.6	16.1	15.9	16.2	16.2	16.3	16.3	17.6
2	16.2	15.0	15.1	14.8	15.0	14.4	13.5	16.4	17.3	20.5	21.3	22.3	20.5	19.3	17.8	17.3	16.7	16.1	15.2	14.8	15.0	15.0	14.9	15.2	15.2	16.6
3	15.5	15.3	15.2	15.3	15.1	14.5	14.5	15.5	16.0	16.8	17.2	17.9	17.4	19.0	18.7	15.1	14.4	13.7	13.4	13.2	12.9	12.8	12.7	12.8	12.8	15.2
4	13.0	12.7	12.7	12.9	13.0	12.8	12.3	12.5	14.2	14.3	14.6	15.0	14.7	15.0	13.7	13.8	12.4	12.2	12.1	12.0	11.3	11.2	10.7	10.6	10.6	12.9
5	10.0	10.0	9.8	10.3	10.5	9.3	9.7	11.3	13.3	14.0	15.3	16.0	15.0	14.2	14.2	13.4	13.1	13.1	12.9	12.9	13.2	13.2	14.1	13.4	12.6	12.6
6	13.1	13.0	13.2	13.1	13.2	13.8	13.9	13.3	12.4	13.0	12.7	12.9	13.9	11.0	11.7	12.3	11.4	8.4	7.9	8.0	9.0	8.7	8.9	9.0	9.0	11.6
7	8.3	8.3	8.2	8.0	7.9	7.9	8.0	8.2	8.4	8.8	8.9	7.5	8.7	9.3	9.4	9.3	9.3	9.3	9.0	8.6	8.4	8.4	7.9	7.9	7.9	8.5
8	7.5	7.4	7.3	7.2	7.0	6.8	8.1	9.0	10.3	11.4	11.8	12.2	12.4	11.8	11.1	10.8	10.5	10.5	10.5	10.2	10.1	10.1	10.2	10.2	10.2	9.8
9	10.1	10.1	9.8	9.2	9.6	9.5	9.7	10.5	11.5	13.0	14.6	14.9	15.0	13.9	14.5	13.2	12.2	11.6	11.1	10.4	9.9	9.7	9.7	9.4	9.4	11.4
10	10.1	8.7	9.5	9.3	9.7	9.4	9.3	10.5	11.7	14.6	15.9	16.3	15.6	15.3	15.0	14.0	12.6	12.4	12.2	12.1	12.1	12.1	11.8	11.9	11.9	12.2
1inci onluk	121.1	118.3	116.1	115.4	116.5	114.1	114.6	128.4	134.5	145.9	151.7	155.4	153.4	149.2	147.6	139.2	131.3	124.9	120.9	118.3	117.8	117.4	117.1	116.7	116.7	12.8
11	12.0	11.8	11.7	11.2	11.1	10.7	10.6	11.0	11.7	12.3	13.8	12.5	11.8	12.7	12.0	11.2	10.3	10.3	9.8	9.5	9.7	10.0	9.8	9.7	9.7	11.1
12	9.0	8.5	9.0	9.1	9.4	9.8	9.8	10.9	12.8	12.4	13.2	14.7	14.1	14.1	14.0	12.4	12.1	11.6	11.8	11.3	11.3	11.3	11.2	10.9	10.9	11.5
13	9.4	10.0	10.7	10.2	10.4	8.8	9.8	9.8	10.6	11.2	11.9	12.3	11.9	11.5	11.7	11.5	11.2	11.5	10.2	9.8	9.5	10.0	10.2	11.2	11.2	10.6
14	10.9	10.8	11.1	10.8	10.5	10.8	11.2	11.5	11.5	12.3	12.6	12.8	13.2	12.4	12.1	11.7	11.1	11.1	11.1	10.9	10.9	11.2	11.1	10.3	10.3	11.4
15	10.0	9.5	9.8	9.6	10.2	10.2	10.2	10.8	12.0	12.3	12.5	12.2	12.5	12.4	12.0	11.3	10.7	10.6	10.1	10.1	9.9	10.2	10.4	10.3	10.3	10.8
16	10.2	10.0	10.0	10.0	10.0	10.0	9.7	10.0	11.0	12.1	12.3	12.9	12.3	12.1	12.0	12.0	9.9	9.6	9.8	9.9	9.5	9.5	9.6	10.0	10.0	10.6
17	10.0	9.9	9.3	9.4	9.3	10.0	10.1	10.0	11.0	11.4	12.5	12.6	13.0	13.2	12.9	11.6	9.9	9.3	8.7	8.6	7.5	7.1	6.8	6.6	6.6	10.0
18	8.0	8.0	7.7	8.0	8.0	8.0	7.7	9.3	11.2	11.2	13.3	14.1	13.1	11.5	11.2	10.8	10.1	9.5	9.5	10.0	9.4	9.1	8.7	8.7	8.7	9.8
19	9.0	9.0	8.5	8.9	8.5	8.7	8.6	8.9	9.8	11.1	12.6	13.0	12.4	12.5	11.7	10.5	9.8	9.0	8.9	8.9	8.7	8.5	8.7	8.9	8.9	9.8
20	8.9	8.9	9.0	8.8	8.4	8.8	9.0	9.4	11.0	12.2	12.8	13.2	13.2	12.5	13.2	12.3	12.2	9.6	9.7	9.8	9.4	9.6	9.3	9.4	9.4	10.4
2inci onluk	97.4	96.4	96.8	96.0	95.8	95.8	96.7	101.6	112.6	118.5	127.5	130.3	127.5	124.9	122.8	115.3	107.3	102.1	99.6	98.8	95.8	96.5	95.8	96.9	96.9	10.6
21	9.2	9.1	9.0	9.0	8.4	8.4	8.0	8.5	10.0	10.5	11.6	11.0	11.4	11.7	11.6	11.2	10.2	9.2	8.7	8.2	8.2	7.3	7.2	7.0	7.0	9.4
22	6.2	6.3	6.8	7.3	7.0	6.2	7.9	9.4	10.0	12.1	13.0	14.0	14.2	14.4	14.8	14.6	13.5	13.5	12.4	13.5	13.8	13.6	13.0	12.5	12.5	11.3
23	13.6	12.8	13.7	13.7	13.4	13.4	13.2	14.0	15.2	16.5	17.0	17.7	17.9	17.7	17.2	17.0	16.0	15.9	15.2	15.4	15.6	15.8	15.3	15.0	15.0	15.3
24	15.1	15.3	15.2	14.8	14.4	13.5	13.6	13.5	13.2	16.0	16.9	18.0	15.0	14.5	13.8	13.2	12.5	11.8	11.7	11.3	10.7	10.5	10.5	10.8	10.8	13.6
25	11.1	10.9	10.4	10.0	10.0	10.4	10.4	10.6	11.1	12.3	12.6	12.5	13.0	12.7	12.8	12.0	10.9	10.4	10.3	10.1	10.0	9.9	10.0	10.0	10.0	11.0
26	10.2	10.0	10.3	10.7	10.6	11.0	10.8	10.9	11.2	12.0	11.6	12.0	12.8	11.7	11.8	11.0	10.9	10.9	11.0	11.0	10.5	10.2	10.6	10.4	10.4	11.0
27	10.1	10.1	10.0	9.8	9.4	9.3	9.3	9.4	10.2	10.8	11.2	12.1	12.9	11.5	11.6	11.3	11.0	10.9	10.8	10.8	10.7	10.6	10.5	10.6	10.6	10.6
28	10.9	10.9	11.0	11.0	11.0	11.0	11.1	11.3	12.0	12.2	12.9	12.9	12.2	12.0	11.5	11.1	11.0	11.1	11.2	11.3	10.6	10.3	10.3	10.1	10.1	11.3
29	9.6	9.6	9.8	9.8	9.2	9.6	9.5	10.3	11.2	11.7	12.4	13.5	14.8	14.6	14.0	13.8	11.2	11.2	11.2	10.5	10.1	10.5	10.2	10.7	10.7	11.1
30	9.2	9.8	9.8	9.7	10.2	10.1	10.2	10.3	12.0	13.0	14.2	14.4	14.4	14.6	14.5	13.0	12.9	11.4	11.4	11.4	12.1	11.8	11.6	11.9	11.9	11.8
3inci onluk	105.2	104.8	106.0	105.8	103.6	102.9	104.0	108.2	116.1	127.1	133.4	138.1	138.6	135.4	132.9	126.2	120.1	116.3	113.9	113.5	112.3	110.5	109.2	109.0	109.0	11.6

S A A T — H E U R E

S A A T — H E U R E																								Vasatı Moyen		
Gün Jour	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24		
1	12.1	12.0	12.5	11.9	11.6	12.5	12.5	13.7	14.8	15.0	15.5	15.3	15.6	16.3	16.0	15.3	14.3	13.2	13.6	14.0	13.1	22.2	12.3	12.3	12.2	13.7
2	12.5	42.4	13.0	13.3	13.1	14.0	13.0	15.1	15.3	18.2	18.0	20.8	19.4	19.3	17.0	15.7	13.8	13.1	13.0	12.4	12.3	12.3	12.3	12.4	14.7	
3	12.3	12.3	12.1	11.5	11.7	11.7	11.9	11.9	12.5	12.6	13.0	13.3	13.2	14.1	14.7	13.9	12.6	12.4	12.4	12.6	12.4	12.0	12.2	11.4	12.5	
4	10.7	10.3	10.1	10.0	10.2	10.2	9.8	10.2	10.3	12.0	10.8	14.3	15.3	15.8	15.4	14.9	14.0	13.2	12.9	12.9	12.7	12.3	11.9	11.7	12.3	
5	12.0	12.2	12.2	12.0	12.0	12.0	12.2	13.2	15.0	15.2	14.6	14.7	14.0	13.6	13.9	12.3	11.8	11.4	11.2	11.3	11.4	11.2	11.0	11.0	12.6	
6	11.0	11.0	10.5	9.8	9.7	9.8	9.7	10.2	11.2	11.9	12.5	13.0	13.6	12.9	11.2	11.2	11.1	10.4	10.2	9.9	10.1	10.1	10.1	10.1	10.9	
7	10.1	10.0	10.0	10.0	9.5	9.4	9.1	9.1	9.1	9.8	10.2	9.3	9.0	3.8	8.5	8.0	9.0	8.5	8.9	9.2	9.3	9.4	9.5	9.2	9.3	
8	8.8	9.0	9.2	9.1	9.1	9.0	9.1	9.1	9.1	10.0	8.2	10.2	10.0	9.5	8.1	8.1	7.8	7.8	7.8	7.8	8.0	7.0	7.8	8.0	8.7	
9	8.0	8.8	8.3	7.8	7.8	7.7	7.7	7.6	8.2	8.5	8.5	8.1	8.3	7.9	7.8	7.8	7.8	7.9	8.0	8.2	8.2	8.0	7.9	7.7	8.0	
10	7.8	7.8	7.8	7.8	7.2	6.4	7.3	7.5	8.6	9.9	9.2	10.5	11.3	10.9	10.7	10.0	7.9	8.0	7.9	8.0	7.7	8.3	8.3	8.3	8.6	
1 inci onluk	105.3	105.8	105.7	103.2	101.9	102.7	102.3	107.6	114.0	123.1	122.5	129.7	129.7	129.1	123.3	117.2	110.1	105.9	105.9	106.3	105.2	102.8	103.3	102.0	11.1	
11	6.9	7.0	7.3	7.3	7.4	7.4	7.5	7.5	8.4	8.9	10.3	9.7	10.5	9.9	9.6	8.8	8.3	8.2	8.0	7.9	7.5	7.4	7.3	7.2	8.2	
12	7.2	7.2	7.6	7.8	8.1	8.2	7.4	7.4	7.9	9.0	9.5	10.3	10.9	10.4	10.3	9.2	7.8	7.6	8.2	8.1	7.7	8.0	7.9	7.5	8.4	
13	7.0	6.5	7.2	7.1	7.4	7.3	7.1	7.2	8.5	8.5	8.4	8.4	8.3	8.4	8.3	6.1	6.3	5.4	5.9	5.9	5.1	5.2	5.3	5.3	6.9	
14	5.4	5.8	5.5	5.5	5.3	4.5	4.5	4.0	5.0	5.3	5.8	7.5	6.5	7.2	6.8	6.0	5.3	5.3	5.3	4.5	3.9	4.2	4.0	3.9	5.3	
15	4.1	3.9	4.3	4.5	3.7	3.6	4.5	4.4	5.5	7.6	7.4	5.5	5.9	5.0	5.1	4.7	4.6	4.7	4.8	4.9	4.9	4.8	5.0	5.7	5.0	
16	5.0	4.8	5.3	4.4	4.0	3.6	3.5	3.0	2.9	3.0	3.3	2.9	2.6	2.3	2.3	2.3	2.5	2.8	2.9	3.1	3.2	3.2	3.7	3.8	3.4	
17	3.0	3.0	3.3	2.9	2.8	2.6	2.6	2.6	2.6	3.7	3.6	4.3	3.8	3.8	3.7	3.8	3.8	3.5	3.5	3.6	3.4	2.8	1.6	2.7	3.3	
18	2.8	2.6	2.5	2.2	2.0	1.7	1.3	1.3	1.5	1.9	2.3	1.9	2.1	1.6	1.1	0.8	0.7	1.0	1.2	1.5	1.5	1.6	1.6	1.7	1.7	
19	2.0	2.3	2.6	2.5	2.6	3.3	3.9	4.5	4.9	5.4	5.6	5.9	6.2	6.4	6.6	7.0	7.2	7.4	7.6	7.8	8.1	8.3	8.3	8.2	5.6	
20	8.3	8.4	8.9	8.8	9.2	9.3	7.3	5.4	4.9	4.8	5.0	5.3	5.4	5.0	4.9	5.0	5.3	5.4	5.8	6.1	6.6	7.0	7.3	6.8	6.5	
2 inci onluk	51.7	51.5	54.5	53.0	52.5	51.5	49.6	47.3	52.1	58.1	61.2	61.7	61.7	60.0	58.7	53.7	51.8	51.3	53.2	53.4	51.9	52.5	53.0	52.8	5.4	
21	6.5	6.6	6.1	5.9	5.8	5.5	5.8	6.2	6.6	7.6	8.1	8.3	8.8	9.9	9.9	9.6	8.5	8.2	8.3	8.3	8.4	8.8	8.7	9.3	7.7	
22	9.6	9.7	9.5	9.8	10.0	10.0	10.5	11.4	12.5	13.5	13.0	13.2	12.7	12.2	11.5	11.0	10.4	10.8	10.6	11.2	10.9	11.0	10.7	9.8	11.1	
23	9.3	8.9	8.2	7.6	7.4	7.0	6.5	6.5	6.5	6.5	6.5	6.6	6.8	6.7	6.9	6.9	6.8	6.5	6.4	6.4	6.8	7.0	7.2	7.5	7.1	
24	7.2	6.7	6.3	5.9	5.3	5.1	4.9	5.1	6.1	8.7	11.0	12.3	15.3	14.3	13.9	13.9	13.3	14.2	14.5	14.4	13.6	14.4	14.4	14.6	10.6	
25	14.7	14.3	10.3	10.5	12.0	12.0	11.9	11.3	12.0	12.2	13.0	13.2	13.4	13.4	14.0	12.8	11.8	11.8	11.9	11.7	10.7	10.0	10.3	10.0	12.1	
26	9.9	9.7	9.3	8.9	8.7	8.8	8.2	7.0	5.4	9.0	12.6	11.7	10.6	10.7	7.6	8.4	8.7	7.6	7.3	7.4	8.1	8.1	8.0	7.9	8.7	
27	7.8	8.1	8.1	7.2	5.2	5.0	4.0	3.3	3.0	2.8	2.7	2.1	2.4	2.4	2.9	2.7	2.6	2.4	2.2	1.8	1.5	1.3	1.2	1.2	3.5	
28	1.6	2.2	2.1	2.6	2.7	2.8	3.1	3.4	3.8	4.1	4.3	4.9	5.2	5.3	5.2	5.3	5.4	5.0	6.4	6.5	6.7	7.1	7.3	7.4	4.6	
29	7.5	7.5	7.1	7.0	7.2	7.0	6.9	6.7	6.6	6.7	6.3	4.5	4.3	3.9	3.5	3.3	3.0	3.0	3.1	3.2	3.2	3.3	3.4	3.5	5.1	
30	3.9	4.0	4.3	4.4	4.7	5.2	6.2	7.2	6.3	6.7	6.5	8.0	7.4	6.9	7.0	7.0	6.4	6.4	6.4	7.0	7.1	6.9	7.2	7.1	6.3	
31	6.6	7.0	7.2	7.2	7.3	7.2	7.1	7.0	7.2	7.0	6.2	5.4	5.5	5.3	5.4	5.1	5.0	5.1	4.9	4.9	4.8	4.6	4.5	4.5	5.9	
3 inci onluk	84.6	84.7	78.5	77.0	76.3	75.6	75.1	75.1	76.0	84.8	90.2	90.2	92.4	91.0	87.9	86.0	81.9	81.9	82.0	82.8	81.8	82.5	82.9	82.8	7.5	
Vasatı	7.8	7.8	7.7	7.5	7.4	7.4	7.3	7.4	7.8	8.6	8.8	9.1	9.2	9.0	8.7	8.3	7.9	7.7	7.8	7.8	7.7	7.7	7.7	7.7	8.0	

S A A T — H E U R E

S A A T — H E U R E																								Vasatı Moyen		
Gün Jour	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24		
1	60	63	72	80	94	95	89	80	70	55	50	47	50	47	52	55	70	80	87	90	90	90	90	90	89	73
2	88	87	86	88	86	85	83	80	73	65	63	60	65	66	63	66	71	83	87	90	90	90	92	95	79	
3	90	93	95	90	86	85	83	80	66	55	55	67	66	66	63	66	73	77	83	82	81	81	85	85	85	
4	90	92	96	90	89	88	97	80	76	60	55	63	68	65	67	71	71	84	86	88	90	90	90	90	80	
5	95	96	95	90	90	95	91	85	75	70	61	60	63	68	65	68	71	81	86	89	84	83	92	100	81	
6	100	100	100	100	100	92	100	90	80	73	60	46	60	61	67	80	75	82	85	92	93	72	68	85	82	
7	90	85	95	75	84	73	79	79	70	70	71	66	60	70	65	70	74	85	90	93	92	100	97	92	80	
8	100	99	99	99	100	99	99	95	90	65	65	67	65	71	63	63	71	85	87	87	85	85	92	93	84	
9	94	90	87	88	90	93	93	93	90	85	63	52	63	62	53	54	55	57	54	57	60	62	62	52	71	
10	56	59	59	56	56	56	58	55	50	46	37	34	34	41	42	40	42	48	49	55	60	63	67	75	52	
1 inci onluk	863	864	884	856	875	861	862	817	840	644	580	562	594	617	600	634	673	762	794	823	825	816	835	856	76	
11	72	76	77	80	78	75	64	56	49	48	50	46	36	32	25	24	28	58	56	58	59	60	60	53	55	
12	45	48	53	50	48	60	64	60	55	52	50	51	55	61	70	76	80	94	94	99	97	95	92	100	69	
13	96	92	94	95	95	95	90	87	73	63	65	64	66	69	71	72	82	85	85	83	85	83	83	82	82	
14	82	83	80	84	82	82	79	66	67	74	73	73	77	75	77	75	77	85	93	90	87	88	88	90	80	
15	89	88	87	93	92	88	86	84	75	66	62	55	60	69	62	63	75	85	90	94	89	87	89	97	80	
16	100	100	96	95	95	98	93	90	82	70	68	60	62	66	69	73	82	90	92	92	92	91	91	93	85	
17	91	92	94	93	91	90	91	85	75	62	55	55	50	52	54	56	70	82	82	77	77	80	80	88	76	
18	90	90	88	92	92	89	84	83	76	68	73	70	68	70	71	75	84	90	94	98	98	98	98	100	85	
19	100	100	100	100	100	100	99	92	86	84	80	78	77	78	71	76	85	90	90	94	95	97	98	98	90	
20	97	95	92	97	100	100	96	86	86	80	77	70	70	70	70	72	86	88	96	98	100	100	100	100	89	
2 inci onluk	862	864	861	879	872	877	846	789	724	667	653	622	604	642	640	662	749	847	872	883	879	879	879	901	79	
21	100	100	100	100	93	94	92	90	90	82	83	84	82	90	92	94	100	100	98	98	98	98	98	98	98	
22	98	98	98	98	98	98	97	97	96	94	93	90	94	99	100	99	98	98	97	97	96	96	96	90	97	
23	95	70	87	100	96	90	82	76	70	70	70	60	59	61	85	62	78	80	58	50	52	50	60	53	71	
24	70	85	80	80	75	66	61	63	62	65	55	57	56	63	92	95	95	90	95	87	81	84	90	100	77	
25	100	96	93	85	85	85	87	87	80	74	64	58	55	67	80	85	81	85	85	85	87	95	98	90	83	
26	80	75	96	75	78	76	84	75	70	65	57	62	60	67	60	65	70	70	73	75	73	76	81	80	73	
27	77	70	70	70	75	72	78	67	73	65	60	62	55	60	60	60	60	61	60	64	68	65	56	55	65	
28	56	54	52	51	51	50	47	45	43	38	46	46	45	41	44	43	41	44	56	52	43	39	36	50	47	
29	55	51	51	51	52	50	53	48	42	53	35	43	42	40	30	30	30	30	35	40	44	40	44	45	43	
30	44	46	55	48	57	62	67	62	53	54	42	46	48	44	35	90	36	32	36	42	43	42	45	47	47	
31	49	49	52	57	75	65	60	60	57	55	54	58	66	59	55	58	64	72	65	65	72	66	73	70	62	
3 inci onluk	824	794	834	815	835	828	808	770	736	815	659	666	662	691	733	731	753	762	758	755	757	751	777	778	69	

S A A T — H E U R E

Gün Jour	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Vasatı Moyen
1	65	64	92	90	85	73	72	70	55	63	60	60	58	55	50	53	56	65	70	75	66	64	64	61	66
2	61	65	75	80	81	86	89	80	75	52	38	35	45	45	70	68	72	76	82	86	80	90	82	86	71
3	88	93	94	95	100	95	93	90	89	85	81	75	75	73	75	85	90	95	100	97	97	97	97	92	90
4	92	80	78	80	76	80	83	82	76	71	75	68	68	69	71	72	77	81	85	87	88	95	93	93	80
5	100	100	100	95	95	98	92	85	80	71	68	68	68	70	72	70	75	76	78	81	81	81	68	63	81
6	67	70	73	71	85	90	91	100	93	100	96	100	90	89	85	80	84	91	90	73	70	63	52	100	84
7	52	48	52	50	43	44	56	60	60	60	60	75	65	52	51	52	54	52	50	50	51	60	58	60	55
8	60	68	70	70	70	75	72	68	62	57	52	48	53	59	67	69	72	70	73	80	74	66	70	75	67
9	75	80	85	81	76	75	81	81	79	73	70	80	70	74	70	72	76	89	94	95	91	90	86	85	80
10	82	87	85	84	83	84	84	76	82	70	70	65	75	79	80	82	88	93	86	85	83	85	85	86	82
1 inci onluk	742	755	804	796	794	800	813	792	751	702	670	676	667	677	691	703	744	788	808	807	781	791	755	801	75
11	84	90	90	89	85	84	85	83	78	70	63	66	68	66	70	76	85	86	87	88	85	88	85	85	81
12	88	92	87	87	84	80	77	75	74	80	70	67	61	65	65	75	82	82	78	80	81	81	81	77	78
13	96	86	75	83	82	95	76	80	70	62	61	64	65	67	63	66	69	73	79	78	79	82	80	70	75
14	72	78	75	77	79	74	65	61	62	62	64	61	60	60	60	64	68	68	62	65	65	60	65	70	67
15	72	76	73	78	72	70	68	69	64	62	60	60	60	57	63	72	67	66	69	70	70	77	76	75	69
16	78	76	74	75	73	70	63	63	60	58	65	60	63	61	60	63	69	68	68	67	68	69	69	67	67
17	70	70	68	80	74	60	53	73	70	63	57	52	55	53	60	70	80	80	80	80	82	82	80	76	70
18	76	75	85	86	87	87	88	80	70	64	53	58	62	67	80	83	85	91	92	84	86	81	90	100	80
19	100	90	90	90	99	90	88	86	84	70	63	60	58	62	64	70	72	78	81	80	80	82	82	80	80
20	82	82	80	81	85	85	82	85	78	72	72	65	64	63	62	64	74	79	83	83	83	80	82	80	77
2 inci onluk	818	815	797	834	820	795	745	755	710	663	628	613	616	621	647	703	751	771	780	775	779	782	790	781	74
21	78	75	79	78	100	90	91	90	85	85	75	80	73	68	72	75	80	80	79	80	75	80	80	88	81
22	88	89	90	90	90	85	77	70	63	58	51	48	40	37	38	40	54	42	55	44	42	46	50	54	60
23	56	51	54	54	51	49	46	44	40	40	40	38	38	39	40	39	41	37	37	35	32	31	34	36	42
24	37	38	38	38	40	44	45	47	43	50	46	40	37	68	74	74	80	100	100	100	100	100	100	100	64
25	97	94	94	94	95	91	91	92	90	84	80	78	76	80	81	82	87	86	88	86	87	90	89	88	88
26	87	86	86	81	86	80	88	87	85	80	76	70	70	83	90	93	95	93	88	84	85	80	70	73	83
27	73	72	82	83	83	81	83	82	79	76	75	68	66	76	75	75	75	74	78	90	84	80	83	78	78
28	90	85	85	86	87	85	82	82	80	75	71	74	78	80	82	83	86	86	86	86	84	83	86	85	83
29	86	87	87	87	88	86	87	86	84	82	82	80	75	75	70	80	82	86	100	100	95	94	96	100	87
30	100	95	93	96	96	96	96	96	91	84	78	75	74	72	68	78	80	83	76	76	74	74	85	78	84
3 inci onluk	786	777	785	787	819	789	789	778	744	714	674	651	627	678	690	719	760	757	787	783	758	758	770	785	—
Vasatı	78	78	80	81	81	79	78	78	74	69	66	65	64	66	68	71	75	77	79	79	77	78	77	79	75

Gün Jour	SAAT — HEURE																								Vaatı Moyen
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	
1	76	85	77	100	87	84	85	80	70	74	70	71	70	69	70	72	74	77	75	75	77	81	80	80	78
2	76	77	72	70	67	65	66	55	56	50	50	48	40	43	61	60	82	88	89	90	88	90	93	90	69
3	90	96	100	100	100	99	99	98	96	96	85	95	95	81	72	77	97	92	91	94	83	83	85	97	92
4	98	99	99	99	99	99	99	99	99	99	85	72	69	69	65	58	64	60	62	65	73	82	85	87	83
5	80	80	75	78	76	75	71	66	69	94	70	75	77	78	86	97	99	99	97	98	99	100	100	100	84
6	100	100	100	100	100	100	99	99	98	98	93	90	87	83	96	91	90	96	96	97	92	91	91	90	95
7	88	90	88	86	92	92	95	95	97	95	93	98	100	97	93	90	88	96	86	81	87	85	95	100	92
8	97	90	80	81	83	75	75	72	68	65	85	76	70	78	93	95	100	97	94	91	90	90	88	91	84
9	97	88	95	100	98	96	91	90	86	82	90	100	100	99	99	97	96	96	97	97	97	97	98	88	95
10	85	84	80	80	80	78	80	81	74	70	69	75	72	75	83	86	94	92	89	88	89	93	95	92	83
1inci onluk	887	889	866	894	882	863	859	835	813	793	790	800	775	772	820	823	884	893	876	876	875	892	910	915	85
11	94	90	94	100	97	92	86	84	74	66	63	64	60	55	59	76	73	69	69	66	70	75	73	75	76
12	76	75	75	73	77	84	91	91	90	77	70	64	62	60	60	80	100	95	88	80	86	81	83	97	80
13	96	95	82	82	82	70	66	71	64	60	63	57	56	54	56	90	85	91	90	70	96	93	83	75	76
14	70	65	67	65	65	90	89	94	85	91	97	82	90	80	85	90	86	80	81	80	97	98	97	99	84
15	97	98	93	90	94	98	90	90	90	88	85	87	85	80	95	97	94	95	98	95	90	82	80	84	91
16	94	92	93	100	95	97	99	98	96	90	96	93	95	98	94	90	83	90	96	92	86	90	95	92	94
17	93	90	93	97	97	92	92	96	94	91	95	87	89	89	90	90	90	93	94	94	95	96	98	100	93
18	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	98	100
19	98	98	98	98	98	97	97	97	97	97	97	97	95	91	93	90	88	88	88	85	88	90	90	22	94
20	92	94	97	98	98	97	97	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	99
2inci onluk	910	897	892	903	903	917	907	921	890	860	866	831	832	816	832	903	899	901	903	865	905	903	899	912	89
21	100	100	100	100	100	100	100	100	100	100	99	98	97	97	90	92	99	99	99	99	99	99	99	99	99
22	93	92	98	94	90	90	88	80	75	68	75	75	70	68	75	71	94	83	83	89	79	76	80	98	82
23	98	99	100	100	100	99	99	99	99	99	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
24	100	100	100	100	100	100	100	100	100	73	60	50	35	51	55	50	53	48	52	44	52	46	44	45	69
25	46	53	100	83	65	56	58	61	61	65	63	71	67	69	65	72	75	74	71	70	70	72	75	78	68
26	78	78	78	74	74	72	72	90	100	70	70	70	75	77	96	85	80	95	94	94	92	93	93	95	83
27	94	86	99	100	100	100	99	100	98	100	100	100	100	98	97	97	97	95	94	90	85	87	98	94	96
28	90	89	91	87	90	95	97	97	96	94	94	92	91	96	97	96	95	95	95	89	90	91	94	92	93
29	91	92	93	95	100	100	100	100	100	100	100	100	100	97	94	93	95	95	96	97	95	96	97	97	97
30	96	96	95	96	90	97	97	92	95	90	80	76	75	86	90	89	92	92	92	92	94	95	95	93	91
31	95	100	100	99	100	100	100	100	100	100	100	100	100	97	95	96	95	100	99	99	99	99	100	100	99
3inci onluk	981	985	1054	1028	1016	1009	1010	1019	1024	959	941	932	910	936	934	941	975	976	975	954	955	953	974	991	89

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S A A T — H E U R E

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Jour

13	14	15	16	17	18	19	20	21	22	23	24	
NNE 6	NNE 6	NNE 6	NNE 6	NNE 6	NNE 5	NNE 4	NNE 6	NNE 5	NE 5	NE 3	NE 4	1
N 6	N 6	N 7	N 7	N 6	NNE 6	NNE 5	NNE 5	NNE 6	NNE 5	NNE 4	NNE 4	2
N 5	N 7	N 6	NNE 7	NNE 7	NNE 6	NE 4	NE 4	NE 4	NE 4	NE 4	NE 4	3
N 5	N 6	N 6	N 6	NNE 5	NNE 4	NNE 4	NE 3	NEE 3	E 3	E 3	E 3	4
SSE 2	SW 3	SW 1	N 3	NE 3	E 5	E 4	E 3	NEE 0	NEE 0	NEE 0	NEE 0	5
SW 0	N 2	N 4	N 5	NE 3	E 4	NEE 5	NE 4	E 5	E 4	E 1	E 0	6
N 4	N 5	N 4	N 4	N 4	NNE 2	NNE 3	NNE 3	NE 2	NE 2	NEE 2	NEE 2	7
NNE 6	NNW 6	NNW 4	NNW 4	N 4	NNE 3	NEE 3	NEE 5	NEE 4	NNE 4	NEE 4	E 2	8
N 10	N 9	NNW 5	NNW 7	NNW 5	N 2	NNE 2	N 1	N 1	NNW 1	N 0	NNW 0	9
SW 3	SW 4	SSW 4	SSW 3	S 3	S 2	S 2	S 2	S 2	S 3	S 2	S 3	10
SW 2	SW 1	SW 2	SW 0	SW 0	E 3	E 5	E 5	SEE 5	SEE 7	SEE 6	SEE 5	11
N 4	N 5	N 5	N 5	N 4	NNE 5	NNE 4	NNE 5	NNE 5	NNE 3	NNE 4	NNE 4	12
NNE 9	NNE 10	NNE 9	NNE 8	NNE 7	NNE 6	NNE 6	NNE 5	NNE 5	NNE 6	NNE 6	NNE 6	13
NNE 7	NNE 5	NNE 5	NNE 6	NNE 5	NNE 5	NNE 4	NNE 5	NNE 5	NNE 5	NNE 3	NNE 3	14
NNE 3	N 4	NNE 5	NNE 5	NNE 4	NE 3	NE 2	NE 3	NEE 3	NEE 4	NEE 2	NEE 3	15
N 5	NNE 6	NNE 7	NNE 8	NNE 5	NNE 4	NNE 5	NNE 5	NNE 5	NNE 4	NNE 4	NNE 4	16
NE 8	NE 6	NE 7	NE 5	NE 6	NE 6	NE 7	NE 7	NE 5	NE 5	NE 4	NE 3	17
N 4	N 6	N 6	NNE 7	NNE 5	NNE 7	NNE 7	NNE 5	NNE 4	NNE 5	NNE 5	NNE 4	18
NNW 6	NNW 6	N 7	N 6	NNE 4	NNE 5	NE 5	NNE 5	NNE 5	NNE 4	NNE 3	NNE 2	19
SW 3	SW 3	SSW 3	SSW 1	SSW 2	SSW 2	SSW 1	SSW 2	SSW 2	SSW 1	SSW 0	SSW 0	20
NNW 7	NNW 8	NNW 9	NNW 9	N 7	N 4	N 5	NNE 4	NNE 3	N 3	N 2	N 2	21
NNW 4	NW 4	NW 7	NNW 4	NNW 4	NNW 5	NW 4	NNW 5	NNW 3	NNW 3	N 3	S 5	22
SSW 10	SSW 12	SSW 4	SW 8	W 4	W 5	SSW 7	SW 10	SW 9	SSW 9	SSW 10	SW 10	23
SSW 4	SSW 6	SW 3	NWW 3	N 2	W 0	NWW 0	NWW 2	NWW 0	N 2	N 1	N 1	24
E 2	N 3	N 2	N 2	NNE 2	E 2	E 2	E 2	E 2	E 1	E 1	E 1	25
SW 2	SW 2	SSW 2	SSW 2	SSW 2	SSE 2	SE 2	SE 2	SE 3	SSE 3	SSE 3	SE 3	26
SSW 3	SSW 2	SSW 3	S 2	S 2	S 3	S 2	S 4	SSW 2	SSW 8	SSW 3	SSW 3	27
S 3	S 2	S 2	S 3	S 3	S 2	S 3	S 5	SSE 5	SSE 4	SSE 4	S 2	28
SSW 2	SSW 2	S 2	S 2	SSE 3	SSE 1	SSE 1	SSE 1	SSE 1	SSE 2	SE 3	SE 3	29
S 1	S 1	S 0	S 1	S 0	S 1	SEE 2	E 3	SEE 3	SEE 3	SEE 3	SEE 2	30
SSW 4	SSW 4	S 2	SSE 1	SE 3	SE 4	SE 2	SE 1	SE 2	SE 1	S 2	S 2	31
NNW	NW	NNW	N	NNE	NE	NE	NE	NEE	NEE	NEE	NEE	Galip istikamet

Gün Jour	S A A T — H E U R E											
	1	2	3	4	5	6	7	8	9	10	11	12
1	SE 1	SE 3	SSE 3	SSE 5	SSE 5	SSE 5	S 3	SSE 4	SSE 3	SE 2	SW 6	SW 6
2	SEE 2	SEE 2	SEE 5	SEE 5	SEE 5	SEE 4	SEE 2	E 3	SEE 5	SEE 1	SEE 0	SSE 0
3	NNE 1	NNE 3	NNE 3	NNE 5	NNE 4	NNE 4	NNE 1	NNE 1	NNE 0	NNE 0	SSW 0	N 2
4	NNE 0	NNE 0	NNE 0	NNE 1	E 2	E 1	E 1	E 1	E 1	S 1	SSW 2	SSW 3
5	SEE 5	SE 5	SE 3	SEE 4	SEE 4	SEE 3	SEE 4	SEE 2	SEE 0	SE 1	SW 2	SW 2
6	NEE 0	NEE 0	NNW 5	NNW 4	NNW 6	NNW 5	NNW 4	NNW 4	NNW 2	SE 0	SE 0	SEE 2
7	NNE 5	NNE 6	NNE 7	NNE 7	NNE 6	NNE 5	NNE 5	NNE 5	NNE 6	N 5	N 4	N 5
8	NNE 5	NNE 7	NNE 7	NNE 6	NNE 6	NNE 9	NNE 7	NNE 6	NNE 6	NNE 5	NNE 7	NNE 10
9	NNE 5	NNE 6	NNE 6	NNE 8	NNE 7	NNE 8	NNE 9	NNE 8	NNE 9	NNE 9	NNE 9	NNE 8
10	N 6	N 5	N 4	NNE 6	NNE 5	NNE 5	NNE 6	NNE 6	NNE 3	NNE 2	NNE 4	NNE 5
11	NNE 6	NNE 7	NNE 7	NNE 5	NNE 6	NNE 4	NNE 5	NNE 5	NNE 9	NE 10	NE 8	NE 9
12	NNE 5	NNE 5	NNE 4	NNE 4	NNE 5	E 4	E 7	E 5	E 4	NNE 5	NNE 7	NNE 6
13	NNE 7	NNE 7	NNE 5	NNE 6	NNE 6	NNE 9	NNE 7	NNE 7	NNE 8	NNE 9	NNE 9	NNE 9
14	NNE 8	NNE 8	NNE 4	NNE 1	NNE 4	NNE 3	NNE 6	NNE 5	NE 6	NNE 3	N 2	NNE 3
15	N 1	N 1	N 1	NE 1	NE 0	NNE 0	NNE 0	NNE 0	NNE 0	N 1	N 6	N 5
16	N 6	N 7	N 10	N 7	N 10	N 7	N 10	N 8	N 10	NNE 10	NNE 10	NNE 8
17	NNE 7	NNE 5	NNE 8	NNE 10	NNE 8	NNE 7	NNE 6	NNE 6	NNE 6	NNE 7	NNE 5	NNE 7
18	NNE 7	NNE 8	NNE 7	NNE 8	NNE 7	NNE 8	NNE 11	NNE 9	NNE 8	NNE 8	NNE 7	NNE 7
19	NNE 5	NNE 5	NNE 5	NNE 7	NNE 7	NNE 7	NNE 6	NNE 8	NNE 9	NNE 6	NE 5	NE 7
20	NNE 7	NNE 5	NNE 7	N 6	N 6	N 5	N 5	N 9	N 9	NNW 8	NNW 7	NNW 8
21	NNW 1	NNW 0	NNW 2	NNW 2	NNW 2	NNW 1	NNW 0	NNW 0	NNW 0	N 0	N 0	N 0
22	E 6	E 1	NNE 2	SEE 3	E 4	SE 7	SE 7	SE 13	SE 9	SE 9	S 9	S 6
23	N 0	NNW 2	NNW 8	NNW 5	NNW 6	NNW 6	NNW 6	NNW 7	NNW 6	N 4	N 4	N 4
24	E 1	E 1	E 0	NEE 1	NEE 1	NEE 1	N 2	E 2	SEE 3	SE 5	SSE 3	SSE 2
25	SE 10	SE 10	S 8	S 15	S 14	S 11	S 12	S 10	SSW 6	SSW 13	SSW 13	SSW 10
26	S 3	S 1	S 2	S 2	SSE 2	SE 2	SE 2	SEE 2	E 2	E 1	E 2	E 0
27	E 2	S 7	S 5	NW 2	NNE 6	NNE 4	NNE 6	NNE 5	NNE 6	NNE 7	NNW 5	NNW 4
28	NE 4	NE 4	NEE 5	NE 5	NE 4	NE 4	NNE 6	NE 4	NE 6	NE 5	NNE 5	NNE 5
29	NE 9	NE 9	NE 9	NE 9	N 8	N 7	N 8	N 9	N 10	N 9	N 10	N 15
30	NNW 4	NNW 5	NNW 5	NNW 5	NNW 4	NNW 1	N 5	NE 5	E 4	NNE 6	NEE 6	NE 6
31	SEE 3	E 0	E 3	NEE 3	NEE 3	NEE 2	NE 2	N 3	NNW 3	NNW 8	NNW 9	NNW 10
Galip istikamet	NE	NE	NNE	NNE	NNE	NE	NE	NE	NE	NE	NNE	NNE

Vent

Aralık 1938 — Décembre 1938

S A A T — H E U R E												Gün Jour
13	14	15	16	17	18	19	20	21	22	23	24	
SSW 5	SSW 1	SSW 0	SSW 0	SSW 0	SSW 1	S 3	SE 3	SE 3	SEE 2	SEE 3	SEE 3	1
SE 4	SE 3	NNE 4	NNE 3	NNE 2	NNE 3	NNE 3	NNE 3	NNE 1	NNE 3	NNE 3	NNE 3	2
N 1	SE 3	SE 3	SE 1	N 2	NNE 1	NNE 0	NNE 1	NNE 0	NNE 0	NNE 0	NNE 0	3
SSW 2	SSW 2	SSW 2	SSW 1	SSW 0	SSW 0	NNW 6	SEE 4	SEE 4	SEE 4	SEE 4	SEE 5	4
SWW 0	NNW 2	N 2	NNE 3	NNE 3	NE 3	NE 3	NE 2	NE 3	NEE 3	NEE 2	NEE 1	5
N 1	NNE 5	NNE 6	NNE 4	NNE 7	NNE 5	NNE 7	NNE 6	NNE 6	NNE 6	NNE 5	NNE 5	6
N 5	N 6	N 7	N 7	N 7	N 5	NNE 6	NNE 6	NNE 5	NNE 6	NNE 6	NNE 5	7
NNE 10	NNE 8	NNE 8	NNE 7	NNE 8	NNE 10	NNE 10	NNE 9	NNE 10	NNE 7	NNE 8	NNE 9	8
N 9	N 9	N 10	N 11	N 8	N 9	N 8	N 7	N 6	N 5	N 5	N 7	9
NNE 4	NNE 4	NNE 6	NNE 7	NNE 4	NNE 4	NNE 4	NNE 3	NNE 4	SEE 5	SEE 5	NE 5	10
NE 12	NE 10	NE 10	NE 8	NNE 9	NNE 10	NNE 8	NNE 7	NNE 5	NNE 6	NNE 6	NNE 5	11
NNE 5	NNE 6	NNE 6	NNE 5	NNE 7	NNE 7	NNE 6	NNE 8	NNE 7	NNE 7	NNE 8	NNE 7	12
NE 9	NE 7	NE 6	NE 9	NNE 6	NNE 9	NNE 8	NNE 8	NNE 5	NNE 7	NNE 6	NNE 6	13
NNE 3	NNE 3	NNE 4	NNE 3	NNE 3	NE 4	NE 2	NE 2	N 0	N 2	N 3	N 2	14
N 6	N 3	N 3	N 5	N 3	N 2	N 3	N 5	N 8	N 6	N 7	N 7	15
NNE 7	NNE	NNE	NNE 6	NNE 7	NNE 10	NNE 10	NNE 7	NNE 8	NNE 7	NNE 8	NNE 6	16
NNE 7	NNE 9	NNE 7	NNE 6	NNE 5	NNE 4	NNE 5	NNE 5	NNE 5	NNE 7	NNE 7	NNE 7	17
NNE 8	NNE 10	NNE 7	NNE 9	NNE 8	NNE 9	NNE 11	NNE 7	NNE 7	NNE 4	NNE 5	NNE 5	18
NE 7	NE 5	NE 9	E 9	E 11	E 9	NE 7	NE 6	NE 6	NE 5	NNE 6	NNE 6	19
NNW 8	NNW 5	NNW 5	NNW 5	NNW 5	NNW 5	NNW 4	NNW 2	NNW 0	NNW 0	NNW 0	NNW 0	20
NNW 0	NNW 0	N 0	NNE 1	NNE 2	N 2	NNE 2	NNE 2	NNE 2	NE 2	N 4	N 0	21
S 7	S 6	SSW 2	S 5	SE	SE 2	SE 1	SSW 3	SE 2	SE 2	SE 0	SE 0	22
N 3	N 3	N 3	N 4	N 3	N 4	N 3	N 2	NNE 4	NE 3	NEE 3	E 2	23
SSE 3	SSE 7	SE 7	SE 10	SE 8	SE 8	SE 9	SE 8	SE 9	SE 8	SE 8	SE 8	24
SW 10	SW 7	SSW 6	SSW 4	SSW 3	SSW 2	SSW 3	SSW 2	SSW 1	SE 2	S 3	SSW 2	25
NEE 2	NEE 2	NNE 6	NE 5	NEE 3	W 3	NE 2	NE 3	S 2	SE 4	SEE 1	SEE 2	26
NNW 3	NNW 3	NNW 1	NNW 2	NNW 1	NNW 3	N 3	N 0	N 1	N 2	NNE 3	NNE 3	27
NNE 7	NNE 7	NNE 7	NNE 9	NNE 6	NNE 6	NNE 7	NNE 6	NNE 6	NNE 7	NNE 6	NNE 9	28
NNW 15	NNW 12	NNW 11	NNW 9	NNW 10	NNW 11	NNW 6	NNW 6	NNW 7	NNW 5	NNW 5	NNW 4	29
E 8	E 5	E 6	E 8	E 7	E 6	NEE 6	E 9	SSW 3	SE 4	SEE 6	SEE 4	30
NNW 9	NNW 9	NNW 8	NNW 6	NNW 6	NNW 4	NNW 4	NNW 3	NNW 3	NNW 4	N 2	N 2	31
NNE	NNE	NNE	NNE	NNE	NNE	NNE	NNE	NNE	NE	NE	NE	Galip istikamet

Gün Jour	S A A T — H E U R E												Yekûn Total
	6-7	7-8	8-9	9-10	10-11	11-12	12-13	13-14	14-15	15-16	16-17	17-18	
1	0.7	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.5	11.2
2	0.5	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.5	11.0
3	0.6	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.5	—	10.1
4	0.1	0.5	1.0	0.9	0.8	1.0	1.0	1.0	1.0	1.0	1.0	0.5	9.8
5	0.5	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.4	10.9
6	0.4	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.7	0.4	—	9.5
7	0.5	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.8	0.9	—	10.2
8	—	0.6	1.0	1.0	0.9	1.0	1.0	1.0	1.0	1.0	1.0	0.4	9.9
9	—	—	—	0.4	—	0.4	0.6	—	0.7	0.9	0.7	0.2	3.9
10	0.1	0.9	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.4	10.4
1 inci onluk	3.4	8.0	9.0	9.3	8.7	9.4	9.6	9.0	9.7	9.4	8.5	2.9	96.9
11	0.5	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.5	11.0
12	0.6	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.5	11.1
13	—	0.7	0.8	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.6	—	9.1
14	—	0.7	0.9	0.6	0.3	0.4	0.3	0.9	0.9	0.7	0.7	0.1	6.5
15	—	—	0.3	0.7	0.6	1.0	1.0	1.0	1.0	1.0	1.0	0.1	7.7
16	0.3	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	—	10.3
17	0.2	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	—	10.2
18	0.3	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	—	10.3
19	—	0.4	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	—	9.4
20	—	0.6	1.0	0.6	0.8	1.0	1.0	1.0	1.0	1.0	0.4	—	8.4
2 inci onluk	1.9	7.4	9.0	8.9	8.7	9.4	9.3	9.9	9.9	9.7	8.7	1.2	94.0
21	—	—	—	0.1	—	—	0.5	0.3	—	—	—	—	0.9
22	—	—	—	—	—	—	—	—	—	—	—	—	—
23	—	0.5	0.3	0.4	0.8	0.8	0.9	0.9	0.6	0.2	—	—	5.4
24	0.2	0.8	0.4	—	—	—	0.2	0.9	—	—	—	—	2.5
25	—	—	—	—	—	0.5	0.8	—	—	—	—	—	1.3
26	—	0.8	1.0	1.0	1.0	1.0	1.0	1.0	0.6	0.5	—	—	7.9
27	—	0.7	0.7	—	0.2	0.1	0.9	0.5	0.4	0.4	—	—	3.9
28	—	—	—	0.4	0.4	0.7	0.6	0.5	0.2	0.9	—	—	3.7
29	—	—	0.8	0.8	1.0	1.0	1.0	1.0	1.0	0.9	0.5	—	8.0
30	—	0.7	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.5	—	9.2
31	—	1.0	1.0	1.0	0.9	0.9	0.7	0.5	0.6	—	—	—	6.6
3 üncü onluk	0.2	4.5	5.2	4.7	5.3	6.0	7.6	6.6	4.4	3.9	1.0	—	49.4
Yekûn	5.5	19.9	23.2	22.9	22.7	24.8	26.5	25.5	24.0	23.0	18.2	4.1	240.3

Güneşlenme — *Insolation*Kasım 1938 — *Novembre 1938*

Gün Jour	S A A T — H E U R E												Yekûn Total
	6-7	7-8	8-9	9-10	10-11	11-12	12-13	13-14	14-15	15-16	16-17	17-18	
1	—	0.8	1.0	1.0	1.0	1.0	1.0	0.6	0.8	0.5	—	—	7.7
2	—	0.6	—	0.9	0.8	0.6	0.1	0.1	—	—	—	—	3.1
3	—	—	—	—	—	0.1	—	0.3	0.6	0.6	0.1	—	1.7
4	—	—	0.4	0.5	—	1.0	1.0	0.9	1.0	0.5	0.6	—	5.9
5	—	0.7	1.0	1.0	1.0	0.9	1.0	0.5	—	—	—	—	6.1
6	—	—	—	—	—	—	—	—	—	—	—	—	—
7	—	—	0.1	0.1	—	0.2	0.2	0.3	1.0	0.6	0.3	—	2.8
8	—	0.8	1.0	1.0	1.0	1.0	1.0	0.8	—	—	—	—	6.6
9	—	—	—	—	0.8	1.0	1.0	1.0	0.6	1.0	0.4	—	5.8
10	—	0.8	1.0	1.0	1.0	1.0	0.9	0.4	1.0	1.0	0.2	—	8.3
1 inci onluk	—	3.7	4.5	5.5	5.6	6.8	6.2	4.9	5.0	4.2	1.6	—	48.0
11	—	—	—	0.3	0.1	0.9	0.4	0.6	1.0	0.5	0.1	—	3.9
12	—	0.9	1.0	0.8	0.2	0.4	1.0	1.0	1.0	0.7	—	—	7.0
13	—	—	—	—	—	0.2	—	—	—	—	—	—	0.2
14	—	—	—	0.5	0.4	—	—	0.2	0.2	0.3	—	—	1.5
15	—	0.5	0.7	0.9	0.6	0.6	0.3	0.7	0.6	0.4	—	—	5.3
16	—	0.5	1.0	1.0	0.7	—	0.1	0.4	0.9	0.9	0.4	—	5.9
17	—	0.5	0.7	0.6	—	—	—	0.6	1.0	1.0	0.4	—	4.8
18	—	0.7	1.0	1.0	1.0	1.0	0.7	0.1	0.3	—	—	—	5.8
19	—	0.3	0.8	0.9	1.0	1.0	1.0	1.0	1.0	0.3	0.1	—	7.4
20	—	—	0.1	0.6	0.5	0.6	0.5	0.8	1.0	1.0	0.5	—	5.6
2 inci onluk	—	3.4	5.3	6.6	4.5	5.1	4.0	5.4	7.0	5.1	1.5	—	47.9
21	—	0.4	1.0	0.5	—	—	—	—	0.2	1.0	0.5	—	3.6
22	—	0.9	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.5	—	9.4
23	—	0.1	1.0	1.0	1.0	1.0	1.0	0.9	1.0	0.6	—	—	7.6
24	—	—	0.1	0.8	1.0	0.9	0.6	—	—	—	—	—	3.4
25	—	—	0.4	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.3	—	7.7
26	—	—	—	—	—	—	—	—	—	—	—	—	—
27	—	—	—	—	—	—	—	—	—	—	—	—	—
28	—	—	—	0.1	0.2	0.1	0.1	0.1	—	—	—	—	0.6
29	—	—	—	—	—	0.1	0.3	—	0.5	0.3	—	—	1.2
30	—	—	0.4	0.5	0.5	0.9	1.0	0.9	1.0	0.8	—	—	6.0
3 üncü onluk	—	1.4	3.9	4.9	4.7	5.0	5.0	3.9	4.7	4.7	1.3	—	39.5
Yekûn	—	8.5	13.7	17.0	14.8	16.9	15.2	14.2	16.7	14.0	4.4	—	135.4

Gün Jour	S A A T — H E U R E												Yekûn Total
	6-7	7-8	8-9	9-10	10-11	11-12	12-13	13-14	14-15	15-16	16-17	17-18	
1	—	—	0.3	0.8	0.9	0.9	0.8	—	—	—	—	—	3.7
2	—	—	—	0.6	1.0	1.0	0.9	0.9	1.0	0.4	—	—	5.8
3	—	—	—	—	—	0.1	—	—	—	—	—	—	0.1
4	—	—	—	0.5	1.0	1.0	1.0	0.9	1.0	1.0	0.4	—	6.8
5	—	0.2	0.5	0.2	—	—	—	—	—	—	—	—	.09
6	—	—	—	—	—	—	—	—	—	—	—	—	—
7	—	—	—	—	—	—	—	—	—	—	—	—	—
8	—	—	—	0.3	—	0.2	0.4	0.4	0.1	—	—	—	1.4
9	—	—	—	—	—	—	—	—	—	—	—	—	—
10	—	—	—	0.3	0.4	0.9	1.0	0.6	0.6	0.6	—	—	4.4
1 inci onluk	—	0.2	0.8	2.7	3.3	4.1	4.1	2.8	2.7	2.0	0.4	—	23.1
11	—	—	0.2	0.8	0.9	0.4	0.9	0.9	0.4	—	—	—	4.5
12	—	—	—	0.6	0.6	0.6	0.6	0.4	0.7	—	—	—	3.5
13	—	—	0.7	0.9	0.2	0.2	—	—	0.3	—	—	—	2.3
14	—	—	—	0.1	0.2	0.2	—	0.3	0.3	0.8	0.2	—	2.1
15	—	—	0.5	1.0	0.3	—	—	—	—	—	—	—	1.8
16	—	—	—	—	—	—	—	—	—	—	—	—	—
17	—	—	—	—	—	—	—	—	—	—	—	—	—
18	—	—	—	—	—	—	—	—	—	—	—	—	—
19	—	—	—	—	—	—	0.1	—	—	—	—	—	0.1
20	—	—	—	—	—	—	—	—	—	—	—	—	—
2 inci onluk	—	—	1.4	3.4	2.2	1.4	1.6	1.6	1.7	0.8	0.2	—	14.3
21	—	—	—	—	—	—	0.1	0.1	—	—	—	—	0.2
22	—	—	—	0.1	—	0.4	0.5	—	—	—	—	—	1.0
23	—	—	—	—	—	—	—	—	—	—	—	—	—
24	—	0.5	0.8	0.9	1.0	1.0	1.0	—	—	—	—	—	5.2
25	—	—	0.5	0.9	1.0	1.0	1.0	1.0	0.8	1.0	0.3	—	7.5
26	—	—	0.1	0.5	1.0	0.4	—	—	—	—	—	—	2.0
27	—	—	—	—	—	—	—	—	—	—	—	—	—
28	—	—	—	—	—	—	—	—	—	—	—	—	—
29	—	—	—	—	—	—	—	—	—	—	—	—	—
30	—	—	—	—	—	—	—	—	—	0.3	—	—	0.3
31	—	—	—	—	—	—	—	—	—	—	—	—	—
3 üncü onluk	—	0.5	1.4	2.4	3.0	2.8	2.6	1.1	0.8	1.3	0.3	—	16.2
Yekûn	—	0.7	3.6	8.5	8.5	8.3	8.3	8.5	5.2	4.1	0.9	—	53.6

Toprağın sıcaklığı
Température de la terre

Ekim 1938 — Octobre 1938

Gün Jour	DERİNLİK — PROFONDEUR																	
	— 5 cm.				— 10 cm.				— 20 cm.				— 50 cm.				-1m.	-2m.
	7	14	21	Ortalama Moy.	7	14	21	Ortalama Moy.	7	14	21	Ortalama Moy.	7	14	21	Ortalama Moy.	14	14
1	13.4	23.5	15.1	17.3	14.6	20.5	18.1	17.7	16.2	18.2	19.0	17.8	18.2	18.3	18.0	18.2	19.0	19.5
2	14.5	23.3	17.6	18.5	15.8	20.8	18.7	18.4	17.0	18.7	19.5	18.4	18.5	18.3	18.4	18.4	18.9	19.3
3	14.7	23.7	18.0	18.8	15.0	21.3	19.0	18.4	17.2	19.2	19.7	18.7	18.6	18.5	18.5	18.5	18.9	19.2
4	15.5	23.8	18.0	19.1	16.5	21.4	19.3	19.1	17.8	19.4	19.9	19.0	18.8	18.7	18.8	18.8	18.9	19.1
5	14.8	24.0	18.2	19.0	16.2	21.3	19.4	19.0	17.7	19.3	20.0	19.0	18.9	18.9	18.8	18.9	18.9	19.0
6	14.7	25.0	19.4	19.7	16.0	22.0	20.4	19.5	17.5	19.5	20.5	19.2	19.0	18.9	19.0	19.0	18.9	19.0
7	15.3	23.6	18.9	19.3	16.2	21.7	19.8	19.2	18.3	19.6	20.3	19.4	19.2	19.0	19.0	19.1	18.9	18.9
8	16.6	23.6	18.1	19.4	17.4	21.5	19.2	19.4	18.5	19.8	20.1	19.5	19.3	19.4	19.1	19.3	18.8	18.9
9	15.5	18.8	14.6	16.3	16.5	18.2	16.4	17.0	18.0	18.2	17.8	18.0	19.4	19.1	18.8	19.1	18.8	18.8
10	11.9	20.9	16.0	16.3	13.5	18.9	17.5	16.6	15.6	17.2	18.0	16.9	18.4	18.4	18.2	18.3	18.8	18.8
1inci onluk	14.7	23.0	17.4	18.4	15.8	20.8	18.8	18.4	17.4	18.9	19.5	18.6	18.8	18.8	18.7	18.8	18.9	19.1
11	13.0	22.3	16.8	17.4	14.7	19.7	18.0	17.3	16.0	17.6	18.7	17.4	18.2	18.0	18.0	18.1	18.7	18.8
12	13.5	23.2	17.8	18.2	14.9	20.5	18.7	18.0	16.5	18.3	19.2	18.0	18.2	18.1	18.1	18.1	18.6	18.7
13	15.8	22.2	17.4	18.5	16.6	20.3	18.4	18.4	17.5	18.7	19.1	18.4	18.4	18.4	18.4	18.4	18.6	18.7
14	14.9	20.5	17.0	17.5	16.0	18.9	17.8	17.6	17.3	18.0	18.4	17.9	18.5	18.4	18.3	18.4	18.6	18.7
15	15.3	22.8	17.0	18.4	16.2	20.4	18.4	18.3	17.3	18.4	19.2	18.3	18.3	18.4	18.4	18.4	18.6	18.6
16	14.0	22.0	16.7	17.6	15.5	19.8	18.0	17.8	17.0	18.0	18.6	17.9	18.5	18.3	18.2	18.3	18.5	18.6
17	14.5	21.3	16.2	17.3	15.5	19.5	17.5	17.5	16.8	18.0	18.4	17.7	18.4	18.3	18.2	18.3	18.4	18.6
18	13.8	22.0	16.6	17.5	15.0	19.8	17.8	17.5	16.4	17.9	18.5	17.6	18.1	17.9	18.0	18.0	18.4	18.5
19	14.3	21.5	16.5	17.4	15.4	19.5	17.7	17.5	16.7	18.0	18.4	17.7	18.0	18.0	17.9	18.0	18.3	18.5
20	14.0	21.3	16.5	17.3	15.3	19.3	17.7	17.4	16.6	17.7	18.3	17.5	18.0	17.8	17.8	17.9	18.2	18.5
2inci onluk	14.3	21.9	16.9	17.7	15.5	19.8	18.0	17.7	16.8	18.1	18.7	17.8	18.3	18.2	18.1	18.2	18.5	18.6
21	14.8	17.2	15.0	15.7	15.4	16.8	15.7	16.0	16.4	16.7	16.6	16.6	17.9	17.8	17.7	17.8	18.0	18.5
22	14.0	15.0	13.0	14.0	14.7	15.7	13.4	14.6	15.6	16.0	14.3	15.3	17.4	17.4	17.0	17.3	17.8	18.4
23	10.1	15.0	11.3	12.1	11.8	14.5	13.0	13.1	13.5	14.1	14.1	13.9	16.6	16.3	16.0	16.3	17.7	18.3
24	10.0	13.7	10.8	11.5	11.4	13.0	12.5	12.3	12.9	13.0	13.3	13.1	15.9	15.6	15.3	15.6	17.4	18.3
25	10.5	15.1	11.8	12.5	11.5	14.2	13.0	12.9	12.6	13.3	13.5	13.1	15.2	15.0	15.0	15.1	17.0	18.2
26	10.0	17.3	13.5	13.6	11.5	15.3	14.2	13.7	12.6	13.7	14.6	13.6	15.0	14.9	14.9	14.9	16.9	18.2
27	12.5	17.2	14.8	14.8	13.3	15.7	15.2	14.7	13.8	14.7	15.4	14.6	15.1	15.1	15.3	15.2	16.6	18.2
28	14.3	19.3	16.6	16.7	14.7	17.8	16.9	16.5	14.9	16.3	16.8	16.0	15.4	15.5	15.7	15.5	16.6	18.0
29	14.3	20.8	16.2	17.1	15.0	18.3	17.1	16.8	15.7	16.5	17.2	16.5	15.9	16.1	16.0	16.0	16.7	18.0
30	14.5	21.6	17.0	17.7	15.0	19.0	17.8	17.3	16.0	17.0	18.0	17.0	16.0	16.5	16.5	16.3	17.4	17.9
31	14.8	19.0	16.3	16.7	15.4	17.8	17.0	16.7	15.4	16.9	17.4	16.6	16.2	16.7	16.6	16.5	16.8	17.8
3üncü onluk	12.7	17.4	14.2	14.8	13.6	16.2	15.1	15.0	14.5	15.3	15.6	15.1	16.1	16.1	16.0	16.0	17.2	18.2
Aylık Ortalama	13.9	20.7	16.1	16.9	14.9	18.8	17.2	17.0	16.2	17.4	17.8	17.1	17.7	17.6	17.5	17.6	1.1	18.6

DERİNLİK — PROFONDEUR

Gün — Jour	— 5 cm.				— 10 cm.				— 20 cm.				— 50 cm.				1m.	2m.
	7	14	21	Ortalama Moy.	7	14	21	Ortalama Moy.	7	14	21	Ortalama Moy.	7	14	21	Ortalama Moy.	14	14
1	14.5	20.0	16.0	16.8	15.5	18.3	17.0	16.9	16.3	17.0	17.2	16.8	16.8	16.7	16.8	16.8	16.9	17.8
2	13.7	18.4	15.8	16.0	14.7	17.6	16.5	16.3	15.8	16.7	16.8	16.4	16.8	16.7	16.7	16.7	17.0	17.7
3	14.0	18.2	14.8	15.7	14.0	17.1	15.8	15.6	15.9	16.4	16.5	16.3	16.6	16.6	16.5	16.6	17.0	17.6
4	13.0	17.3	13.6	14.6	14.0	16.4	14.7	15.0	15.1	15.6	15.6	15.4	16.5	16.4	16.3	16.4	17.0	17.5
5	10.0	16.1	13.5	13.2	11.6	15.3	14.2	13.7	13.5	14.5	14.8	14.3	16.1	15.8	15.8	15.9	16.8	17.4
6	13.0	13.0	10.0	12.0	13.5	13.4	11.2	12.7	14.0	13.9	11.3	13.1	15.8	15.5	15.0	15.4	16.6	17.4
7	8.0	9.9	8.3	8.7	9.5	10.3	9.5	9.8	10.5	11.3	10.9	10.9	15.0	14.7	14.3	14.7	16.4	17.4
8	6.7	12.8	10.9	10.1	7.7	11.7	11.4	10.3	9.5	10.9	11.8	10.7	13.8	13.5	13.4	13.6	16.0	17.4
9	10.2	15.6	11.6	12.5	10.8	14.3	12.6	12.6	11.5	12.7	13.7	12.6	13.5	13.6	13.5	13.5	15.8	17.3
10	8.6	15.4	12.3	12.1	9.9	14.1	12.9	12.3	11.4	12.6	13.4	12.5	13.8	13.7	13.6	13.7	15.4	17.3
1 inci onluk	11.2	15.6	12.7	13.2	12.1	14.9	13.6	13.5	13.4	14.2	14.2	13.9	15.5	15.3	15.2	15.3	16.5	17.5
11	11.2	13.8	10.8	11.9	11.8	13.3	11.8	12.3	12.6	13.0	13.3	13.0	13.8	13.8	13.8	13.8	15.4	17.3
12	8.9	14.1	12.0	11.7	10.0	13.0	12.6	11.9	11.3	12.1	13.0	12.1	13.8	13.7	13.6	13.7	15.4	17.0
13	11.0	12.3	9.0	10.8	11.4	12.5	11.0	11.6	12.2	12.4	12.1	12.2	13.7	13.7	13.5	13.6	15.2	17.0
14	9.5	12.2	10.0	10.6	10.0	11.8	10.8	10.9	11.0	11.6	11.6	11.4	13.5	13.3	13.2	13.3	15.0	17.0
15	9.0	12.5	10.2	10.6	9.8	12.0	11.0	10.9	10.8	11.5	11.8	11.4	13.1	13.0	12.9	13.0	14.8	16.9
16	9.3	13.0	9.9	10.7	10.2	12.3	10.8	11.1	11.1	11.7	11.7	11.5	12.9	13.0	12.9	12.9	14.7	16.8
17	8.5	13.5	9.6	10.5	9.5	12.5	10.7	10.9	10.7	11.7	11.7	11.4	12.8	12.8	12.7	12.8	14.6	16.7
18	6.5	12.0	9.5	9.3	8.0	11.4	10.0	9.8	9.7	10.7	11.0	10.5	12.7	12.5	12.5	12.6	14.4	16.7
19	8.8	12.7	10.0	10.5	9.5	11.8	10.7	10.7	10.4	11.1	11.5	11.0	12.4	12.5	12.5	12.5	14.4	16.5
20	8.8	13.3	10.0	10.7	9.5	12.1	11.0	10.9	10.3	11.3	12.0	11.2	12.5	12.3	12.2	12.3	14.1	16.5
2 inci onluk	9.2	12.9	10.1	10.7	10.0	12.3	11.0	11.1	11.0	11.7	12.0	11.6	13.1	13.1	13.0	13.1	14.8	16.8
21	9.1	11.8	9.0	10.0	9.0	11.5	10.4	10.3	10.9	11.3	11.3	11.2	12.4	12.5	12.5	12.5	14.1	16.1
22	6.5	12.0	9.7	9.4	7.7	10.9	10.3	9.6	9.6	10.1	10.8	10.2	12.4	12.0	11.9	12.1	13.9	16.3
23	9.0	13.4	10.8	11.1	9.5	12.3	11.4	11.1	10.3	11.3	11.7	11.1	12.0	12.0	12.1	12.0	13.9	16.3
24	9.7	13.3	11.5	11.5	10.3	12.7	12.0	11.7	11.0	12.0	12.2	11.7	12.3	12.3	12.5	12.4	13.9	16.2
25	9.5	13.5	10.7	11.2	10.3	12.4	11.4	11.4	11.2	11.6	12.0	11.6	12.5	12.5	12.4	12.5	13.9	16.2
26	10.2	12.2	11.3	11.2	10.5	11.8	11.6	11.3	11.1	11.7	12.0	11.6	12.5	12.4	12.6	12.5	13.9	15.9
27	10.1	12.2	11.0	11.1	10.8	12.0	11.2	11.3	11.4	11.7	11.8	11.6	12.5	12.5	12.2	12.4	13.9	15.9
28	10.8	12.8	11.3	11.6	11.0	13.4	11.8	12.1	11.5	12.0	12.2	11.9	12.4	12.5	12.5	12.5	13.9	15.9
29	9.2	14.3	11.4	11.6	9.8	12.9	12.0	11.6	10.9	11.7	12.3	11.6	12.5	12.5	12.5	12.5	13.8	15.8
30	10.5	14.7	11.5	12.2	11.0	13.4	12.0	12.1	11.5	12.3	12.5	12.1	12.6	12.6	12.6	12.6	13.8	15.8
3 üncü onluk	9.5	3.0	10.8	11.1	10.0	12.3	11.4	11.3	10.9	11.6	11.9	11.5	12.4	12.4	12.4	12.4	13.9	16.1
Ayhk Ortalama	9.9	13.9	11.2	11.7	10.7	13.2	12.0	12.0	11.8	12.5	12.7	12.3	13.7	13.6	13.5	13.6	15.1	16.8

Toprağın sıcaklığı

Température de la terre

Aralık 1938 — Décembre 1938

Gün — Jour —	DERİNLİK — PROFONDEUR																	
	— 5 cm.				— 10 cm.				— 20 cm.				— 50 cm.				-1 m.	-2 m.
	7	14	21	Ortalama Moy.	7	14	21	Ortalama Moy.	7	14	21	Ortalama Moy.	7	14	21	Ortalama Moy.	14	14
1	11.2	15.0	12.1	12.8	11.6	14.0	12.7	12.8	12.0	12.9	13.1	12.7	12.8	12.8	12.9	12.8	13.9	15.8
2	10.2	15.8	13.2	13.1	11.0	14.6	13.5	13.0	11.9	13.1	13.7	12.9	13.0	13.0	13.0	13.0	13.9	15.7
3	12.2	14.0	12.7	13.0	12.6	13.6	13.2	13.1	13.0	13.1	13.5	13.2	13.2	13.3	13.4	13.3	13.9	15.7
4	10.0	15.0	12.0	12.3	10.8	13.8	12.6	12.4	11.8	12.8	13.5	12.7	13.4	13.2	13.2	13.3	14.0	15.7
5	10.7	13.5	12.2	12.1	11.5	13.1	12.5	12.4	12.2	12.6	12.8	12.5	13.2	13.2	13.1	13.2	14.0	15.6
6	11.3	14.3	12.0	12.5	11.8	13.7	12.5	12.7	12.3	12.8	12.9	12.7	13.1	13.1	13.1	13.1	14.0	15.5
7	10.8	11.6	10.4	10.9	11.4	11.8	11.0	11.4	12.1	12.0	11.7	11.9	13.1	13.0	13.0	13.0	13.9	15.5
8	9.5	11.7	9.7	10.3	9.7	11.3	10.4	10.5	11.2	11.2	11.2	11.2	12.8	12.8	12.6	12.7	13.8	15.4
9	9.0	9.8	9.4	9.4	9.6	10.1	9.8	9.8	10.5	10.5	10.5	10.5	12.5	12.4	12.3	12.4	13.7	15.4
10	8.3	11.8	9.8	10.0	9.1	10.8	10.4	10.1	10.0	10.2	10.5	10.2	12.0	12.0	12.0	12.0	13.5	15.4
1 inci onluk	10.3	13.3	11.4	11.6	10.9	12.7	11.9	11.8	11.7	12.1	12.3	12.1	12.9	12.9	12.9	12.9	13.9	15.6
11	8.6	10.2	8.7	9.2	9.1	10.1	9.3	9.5	10.0	10.0	10.0	10.0	12.0	11.7	11.7	11.8	13.4	15.4
12	8.0	10.8	9.1	9.3	8.7	10.4	9.7	9.6	9.7	10.0	9.9	9.9	11.7	11.5	11.4	11.5	13.1	15.4
13	8.0	9.1	7.5	8.2	8.6	9.3	8.4	8.8	9.8	9.7	9.4	9.6	11.0	11.5	11.3	11.3	12.9	15.4
14	6.6	7.8	6.4	6.9	7.5	8.0	7.5	7.7	8.5	8.5	8.6	8.5	11.2	10.9	10.7	10.9	12.8	15.3
15	4.5	7.2	6.4	6.0	5.5	7.3	6.9	6.6	6.3	7.5	7.7	7.2	9.8	10.4	10.2	10.1	12.7	15.2
16	5.6	5.7	5.0	5.4	6.3	5.7	5.7	5.9	7.2	7.0	6.8	7.0	10.0	9.9	9.7	9.9	12.3	15.1
17	4.5	6.0	5.5	5.3	5.3	6.2	6.0	5.8	6.3	6.4	6.7	6.5	9.4	9.4	9.4	9.4	12.0	14.9
18	4.4	5.0	3.8	4.4	4.2	5.3	4.5	4.7	6.0	6.0	5.4	5.9	9.0	8.7	8.5	8.7	11.5	14.9
19	4.3	5.7	6.1	5.4	4.7	5.6	6.2	5.5	5.5	5.6	6.4	5.8	8.0	8.0	8.1	8.0	11.1	14.8
20	7.0	6.7	6.6	6.8	7.0	6.8	6.8	6.9	6.7	7.0	6.1	6.6	8.0	8.3	8.5	8.3	10.8	14.7
2 inci onluk	6.2	7.4	6.5	6.7	6.7	7.5	7.1	7.1	7.6	7.8	7.7	7.7	10.0	10.0	10.0	10.0	12.3	15.1
21	6.8	10.0	8.8	8.5	7.0	8.8	8.8	8.2	7.2	8.0	8.7	8.0	8.6	8.8	8.8	8.7	10.8	14.6
22	9.0	11.0	9.9	10.0	9.0	10.5	10.0	9.8	9.0	9.5	9.9	9.5	9.2	9.3	9.4	9.3	11.2	14.5
23	8.7	9.2	8.6	8.8	9.3	9.2	8.9	9.1	9.6	9.3	9.3	9.4	9.7	9.8	9.8	9.8	11.0	14.4
24	7.5	11.2	9.8	9.5	8.3	10.1	10.0	9.5	9.0	9.3	10.2	9.5	10.0	10.0	10.3	10.1	11.0	14.4
25	9.0	11.6	9.5	10.0	9.5	10.7	10.0	10.1	9.9	10.0	10.5	10.1	10.4	10.1	10.2	10.2	11.0	14.1
26	7.0	10.1	8.6	8.6	8.0	9.7	9.0	8.9	9.0	9.2	9.4	9.2	10.3	10.2	10.2	10.2	11.3	14.1
27	7.8	7.0	5.7	6.8	8.5	7.5	6.8	7.6	9.0	7.5	7.9	8.1	10.2	10.0	9.9	10.0	11.2	13.9
28	5.0	5.4	6.4	5.6	5.7	6.4	6.7	6.3	7.3	6.7	7.1	7.0	9.6	9.3	9.1	9.3	11.1	13.9
29	7.0	6.7	5.4	6.4	7.1	7.1	6.0	6.7	7.2	7.3	6.8	7.1	8.9	8.7	8.7	8.8	11.0	13.8
30	5.8	6.3	6.7	6.3	6.0	7.3	7.0	6.8	6.7	7.2	7.5	7.1	8.7	8.6	8.7	8.7	10.8	13.8
31	7.2	7.1	6.7	7.0	7.3	7.4	7.2	7.3	7.5	7.4	7.5	7.5	8.5	8.6	8.8	8.6	10.5	13.4
3 üncü onluk	7.3	8.7	7.8	8.0	7.8	8.6	8.2	8.2	8.3	8.3	8.6	8.4	9.5	9.4	9.4	9.4	11.0	14.1
Aylık Ortalama	7.9	9.8	8.5	8.7	8.4	9.6	9.0	9.0	9.2	9.4	9.5	9.4	10.8	10.7	10.7	10.7	12.3	14.9

Ay günlerinin olaylara göre tevzii

Distribution des jours du mois selon les phénomènes

Ay Mo's	Açık Ouvert	Bulutlu Nuageux	Kapalı Couvert	Yağmurlu Pluvieux	Karlı Neigeux	Dolulu Gréleux	Tipili Tempête de neige	Fırtınalı Tempête	Az donlu Gelé	Çok donlu Sans dégel	Kırağılı Gelé blanche	Çiyli Rosée	Şimşekli Éclair	Gök gürültülü Tonnerre	Sisli Brouillard	Puslu Brou. sec
Ekim Octobre	20	5	6	4	—	—	—	2	—	—	—	16	1	1	4	1
Kasım Novembre	5	12	13	4	—	—	—	3	—	—	—	8	—	—	4	1
Aralık Décembre	4	4	23	17	1	—	—	3	—	—	—	1	—	—	10	—

Aylar — Mois	Başınç 700 mm + ...						Sıcaklık C° Température										Gerilim — Tension		Bağıl nem Humidité relative		Bulut — Nuage		Çökelek Précipitation			Rüzgâr — Vent										Ortalama hız Vitesse moy.
	Ortalama — Moy.		Mutlak maksimum Max. abs.		Tarih — Date		Minimumlar ortalaması Moy. Min.		Maksimumlar ortalaması Moy. Max.		Mutlak maksimum Max. abs.		Tarih — Date		Mutlak minimum Min. abs.		Tarih — Date		mm.		cm.		Kar Neige		Süre (% hesabıyla) [*]											
	Mutlak maksimum Max. abs.	Tarih — Date	Mutlak minimum Min. abs.	Tarih — Date	Mutlak maksimum Max. abs.	Maksimumlar ortalaması Moy. Max.	Minimumlar ortalaması Moy. Min.	Mutlak maksimum Max. abs.	Tarih — Date	Mutlak minimum Min. abs.	Tarih — Date	Mutlak maksimum Max. abs.	Tarih — Date	Mutlak minimum Min. abs.	Tarih — Date	Miktarı Quantité	Yağışlı gün jour neige	Yükseklik Hauteur	Yağışlı gün jour neige	N	NE	E	SE	S	SW	W	NW	Durğun — Calme								
1	61.2	69.6	22	47.5	5	5.1	7.9	1.9	14.8	29	—3.2	9	5.09	78	6.8	95.5	14	—	4	23	5	4	16	18	6	3	11	14	5.8							
2	65.3	78.3	27	46.8	13	4.6	7.3	2.1	16.3	13	—4.0	24 25	4.82	74	7.8	29.8	10	17.0	9	31	17	3	3	16	5	4	9	12	6.3							
3	64.9	75.3	19	53.1	27	6.2	9.9	2.6	17.8	20	—2.7	15	5.26	75	5.7	75.3	9	—	2	33	8	4	1	20	6	1	6	21	4.3							
4	60.3	66.8	10	53.4	13	10.2	13.8	6.5	24.2	20	2.1	7	7.11	78	6.3	75.5	15	—	—	35	6	4	4	15	8	2	5	21	4.2							
5	60.6	67.2	9	50.0	2	16.5	21.3	11.7	29.4	24	7.1	6	9.54	70	3.0	51.7	8	—	—	23	8	7	4	13	20	3	4	18	3.1							
6	61.9	67.9	1	53.0	16	20.2	24.6	15.3	31.8	15	11.7	2	12.21	70	1.3	28.0	2	—	—	38	42	5	1	1	2	1	4	6	4.5							
7	58.1	65.1	7	50.8	11	23.9	28.0	19.9	34.3	4	17.2	6	16.71	77	3.0	31.3	5	—	—	43	29	4	1	—	3	1	5	14	4.3							
8	57.4	62.5	20	48.6	14	25.1	29.6	20.7	36.8	14	18.2	6	15.64	68	1.8	24.5	2	—	—	27	36	4	2	2	9	1	—	19	4.2							
9	61.5	71.4	29	53.0	1	19.7	24.0	16.0	38.0	1	10.5	29	12.50	73	4.3	276.2	10	—	—	34	30	8	2	2	3	2	8	11	4.1							
10	62.6	67.8	1	47.5	22	16.1	20.5	12.5	26.9	30	5.5	23	10.07	74	3.3	58.0	6	—	—	22	23	9	6	12	7	2	3	16	3.4							
11	65.7	74.0	15	53.1	6	11.7	14.9	8.8	22.8	2	4.3	7	7.56	74	5.5	16.4	6	—	—	33	19	8	9	6	6	1	2	16	4.0							
12	61.6	71.6	13	49.9	31	8.0	10.8	5.8	20.8	2	0.7	18	6.93	86	8.5	123.6	26	—	1	41	24	8	8	3	3	—	4	9	4.7							
Yekûn Total																885.8	113	17.0	16																	
Ortalama Moy.	61.7	78.3	27/II	46.8	13/II	13.9	17.7	10.3	38.0	1/IX	—4.0	24/II 25	9.45	75	4.8					32	20	5	5	9	7	2	5	15	4.4							

[*] Bir ay zarfında her hangi bir yönden esen rüzgârın devam müddetinin ay müddetine nispetinin yüzdesi.

Pourcentage de la proportion de la durée de chaque direction du vicut à la durée du mais.

Ay günlerin olaylara göre tevzi

Distribution des jours selon les phénomènes

Yıl 1938 — Année 1938

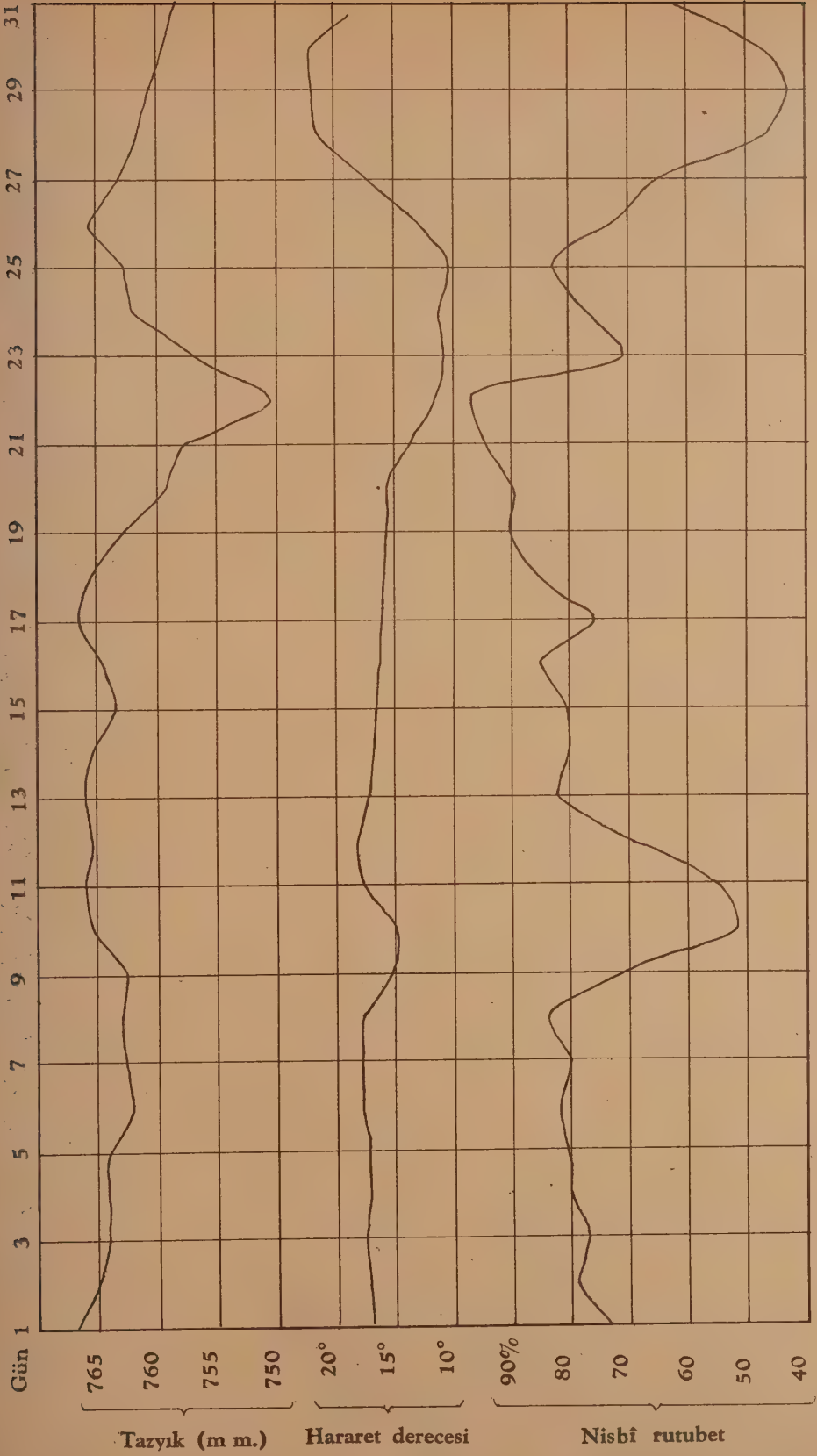
Ay Mois	Açık Ouvert	Bulutlu Nuageux	Kapalı Couvert	Yamurlu Pluvieux	Karlı Neigeux	Dolu Gréleux	Tipili Tempête de neige	Fırtınalı Tempête	Az donlu Gélee	Çok donlu Sans dégel	K yağlı Gélee balanche	Çiyli Rosée	Şimşekli Eclair	Gök g. rülülü Tonnaire	Sisli Brouillard	Puslu Broussac
Ocak Janvier	5	13	13	14	4	—	—	7	8	—	3	1	—	—	10	—
Şubat Février	4	7	17	10	9	1	3	9	9	1	1	—	—	—	3	2
Mart Mars	9	10	12	9	2	—	1	4	—	—	3	4	—	1	11	7
Nisan Avril	9	5	16	15	—	—	—	6	—	—	—	2	—	—	6	2
Mayıs Mai	20	6	5	8	—	—	—	—	—	—	—	9	1	1	3	1
Haziran Juin	28	2	—	1	—	—	—	2	—	—	—	4	1	1	2	1
Temmuz Juillet	22	6	3	5	—	—	—	1	—	—	—	6	1	3	2	1
Ağustos Août	27	2	2	2	—	1	—	3	—	—	—	1	1	2	1	5
Eylül Septembre	12	11	7	10	—	—	—	8	—	—	—	2	2	2	1	3
Ekim Octobre	20	5	6	4	—	—	—	2	—	—	—	16	1	1	4	1
Kasım Novembre	5	12	13	4	—	—	—	3	—	—	—	8	—	—	4	1
Aralık Décembre	4	4	23	17	1	—	—	3	—	—	—	1	—	—	10	—
Toplam Total	165	83	117	99	16	2	4	45	17	1	7	54	7	11	57	24

Gün Jour	S A A T — H E U R E																								Ortalama Moyen	
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24		
1	61.7	61.8	61.7	61.5	61.3	61.3	61.4	61.4	61.6	61.7	61.6	61.3	60.9	60.7	60.9	61.0	61.1	61.2	61.4	61.5	61.6	61.6	61.7	61.5	61.4	
2	65.1	65.1	65.0	64.9	64.9	64.9	65.1	65.4	65.6	65.7	65.7	65.5	65.2	65.0	65.0	65.1	65.1	65.4	65.6	65.7	65.7	65.8	65.8	65.7	65.3	
3	65.2	65.2	65.0	64.9	64.9	65.0	65.1	65.3	65.5	65.6	65.5	65.4	65.0	64.5	64.5	64.4	64.4	64.5	64.6	64.8	64.9	64.9	64.9	64.9	64.9	
4	60.5	60.3	60.2	60.0	60.0	60.2	60.4	60.5	60.6	60.7	60.6	60.4	60.3	60.1	59.9	59.8	59.8	59.9	59.9	60.2	60.4	60.3	60.3	60.2	60.2	
5	60.5	60.4	60.3	60.2	60.3	60.5	60.7	60.8	60.9	61.0	61.0	60.9	60.6	60.3	60.1	60.0	59.9	59.9	60.0	60.3	60.6	60.7	60.8	60.8	60.5	
6	61.8	61.7	61.5	61.5	61.7	61.8	62.1	62.2	62.2	62.3	62.3	62.1	61.9	61.7	61.6	61.5	61.4	61.4	61.6	61.7	61.9	62.0	61.9	61.8	61.8	
7	58.0	57.9	57.8	57.8	57.9	58.0	58.2	58.3	58.4	58.4	58.4	58.3	58.1	57.9	57.8	57.7	57.6	57.7	57.8	57.9	58.2	58.3	58.3	58.2	58.0	
8	57.5	57.4	57.3	57.2	57.3	57.4	57.6	57.7	57.8	57.9	57.8	57.7	57.4	57.2	57.0	56.9	56.8	56.7	56.8	57.1	57.4	57.4	57.5	57.5	57.3	
9	61.3	61.3	61.2	61.1	61.2	61.4	61.5	61.6	61.6	61.7	61.8	61.6	61.3	61.1	61.1	61.0	61.1	61.2	61.4	61.8	61.9	61.9	61.9	61.8	61.4	
10	62.8	62.7	62.6	62.5	62.6	62.7	62.8	63.0	63.1	63.2	63.1	62.8	62.5	62.2	62.1	62.0	62.1	62.2	62.4	62.6	62.7	62.7	62.6	62.6	62.6	
11	65.7	65.7	65.7	65.6	65.6	65.7	65.8	66.1	66.2	66.2	66.1	65.8	65.5	65.2	65.2	65.3	65.4	65.6	65.7	65.8	65.9	66.0	66.0	66.0	65.7	
12	61.8	61.8	61.9	61.8	61.6	61.6	61.7	61.9	62.1	62.2	62.1	61.7	61.5	61.3	61.3	61.4	61.5	61.6	61.7	61.8	61.8	61.7	61.6	61.6	61.7	
Ortalama	61.8	61.8	61.7	61.6	61.6	61.7	61.9	62.0	62.1	62.2	62.2	62.0	61.7	61.4	61.4	61.3	61.3	61.4	61.6	61.8	61.9	62.0	62.0	61.9	61.7	
Sıcaklık — Temperature																										
1	3.9	4.0	4.1	4.2	4.0	4.1	3.9	4.3	5.0	5.8	6.6	7.0	7.2	6.8	6.6	6.0	5.5	5.5	5.2	4.9	4.6	4.5	4.4	4.3	5.1	
2	3.9	3.9	3.8	3.6	3.6	3.4	3.5	3.6	4.1	4.7	5.2	5.6	5.7	6.0	5.7	5.4	5.0	4.5	4.4	4.1	4.2	4.1	4.0	4.0	4.4	
3	4.5	4.5	4.3	4.2	4.2	4.1	4.5	5.0	5.8	6.6	7.3	7.8	8.1	8.5	8.6	8.4	7.7	6.8	6.1	5.9	5.6	5.2	5.1	5.0	6.0	
4	8.0	7.9	7.8	7.6	7.5	7.7	8.2	9.2	10.3	11.0	11.5	12.2	12.6	12.6	12.4	12.4	11.3	11.0	10.2	9.9	9.4	9.2	9.0	8.7	9.9	
5	13.8	13.6	13.3	13.1	13.0	13.4	14.7	16.2	17.2	17.8	18.5	19.1	19.3	19.6	19.8	19.8	18.3	16.8	16.1	15.1	14.8	14.5	14.4	16.3	16.3	
6	17.0	16.8	16.8	16.7	17.2	17.2	19.0	20.6	21.7	22.5	23.0	23.5	23.5	23.7	23.7	23.6	23.6	22.9	21.8	20.2	18.8	18.0	17.9	17.5	20.0	
7	21.5	21.1	21.0	20.7	20.8	21.3	22.4	23.6	24.5	25.2	26.0	26.4	26.5	26.7	26.7	26.6	26.3	25.6	24.4	23.1	22.5	22.2	21.9	21.7	23.7	
8	22.5	22.2	22.1	22.0	21.8	22.1	23.4	24.8	25.9	26.8	27.3	27.6	27.9	28.2	28.4	28.4	27.8	26.8	25.1	24.1	23.6	23.3	23.0	22.7	24.9	
9	17.9	17.8	17.8	17.6	17.6	17.5	18.3	19.8	20.9	21.7	22.4	22.6	22.5	22.5	22.2	21.7	21.2	20.2	19.0	18.7	18.2	18.2	17.8	23.9	24.9	
10	14.6	14.4	14.1	14.1	13.9	13.9	14.2	15.5	16.9	18.0	18.8	19.2	19.4	19.1	18.9	18.2	17.3	16.3	15.7	15.4	15.1	15.0	14.9	14.8	16.2	
11	10.8	10.7	10.6	10.6	10.5	10.4	10.5	11.1	12.1	13.1	13.8	14.1	14.0	13.7	13.4	12.7	12.0	11.1	11.1	11.0	10.9	10.8	10.7	10.7	11.7	
12	7.8	7.8	7.7	7.5	7.4	7.4	7.3	7.4	7.8	8.6	8.8	9.1	9.2	9.0	8.7	8.3	7.9	7.7	7.8	7.8	7.7	7.7	7.7	7.7	8.0	
Ortalama	12.2	12.1	12.0	11.8	11.7	11.9	12.5	13.4	14.4	15.2	15.8	16.2	16.3	16.4	16.2	15.9	15.4	14.7	13.8	13.3	12.9	12.7	12.6	12.4	13.8	
Bağıl nem — Humidité relative																										
1	84	82	81	81	82	82	82	81	79	77	74	71	72	71	73	74	76	78	79	79	80	82	85	84	79	
2	79	78	79	81	79	81	79	77	77	75	71	70	71	68	70	70	72	75	75	76	76	77	75	84	75	
3	81	82	83	84	84	84	83	80	78	75	71	70	68	66	63	64	66	71	73	75	77	80	81	76	75	
4	84	84	84	86	87	87	85	83	78	75	74	71	69	68	68	66	69	72	76	77	79	81	82	78	76	
5	76	76	79	84	83	82	78	74	69	67	64	62	65	59	57	55	55	58	64	69	73	74	76	70	78	
6	85	86	86	87	87	85	77	69	62	58	5.6	53	52	52	52	53	55	60	68	79	82	84	86	71	75	
7	88	90	90	91	90	89	85	77	70	68	6.3	61	61	63	61	60	61	65	73	81	84	86	88	76	69	
8	82	83	83	83	83	84	77	71	64	60	5.7	57	55	54	53	52	53	59	66	72	75	77	79	69	75	
9	82	83	82	83	84	85	79	74	68	63	6.0	60	59	61	62	62	66	70	76	78	79	80	82	73	73	
10	82	81	83	82	83	83	81	77	71	65	6.1	60	60	63	64	65	70	77	78	79	79	80	82	74	75	
11	78	78	80	81	81	79	78	78	74	69	6.6	65	64	66	68	71	75	77	79	77	77	78	77	79	75	
12	90	89	91	91	90	90	90	90	88	84	8.4	83	81	81	81	84	86	89	89	87	88	89	90	91	88	
Ortalama	83	83	83	84	84	84	81	78	73	70	67	65	65	64	65	65	67	71	75	78	79	80	81	82	75	

1938 senesi dahil olduđu halde normal miktarlar

Les normales de 27 anuées d'observation

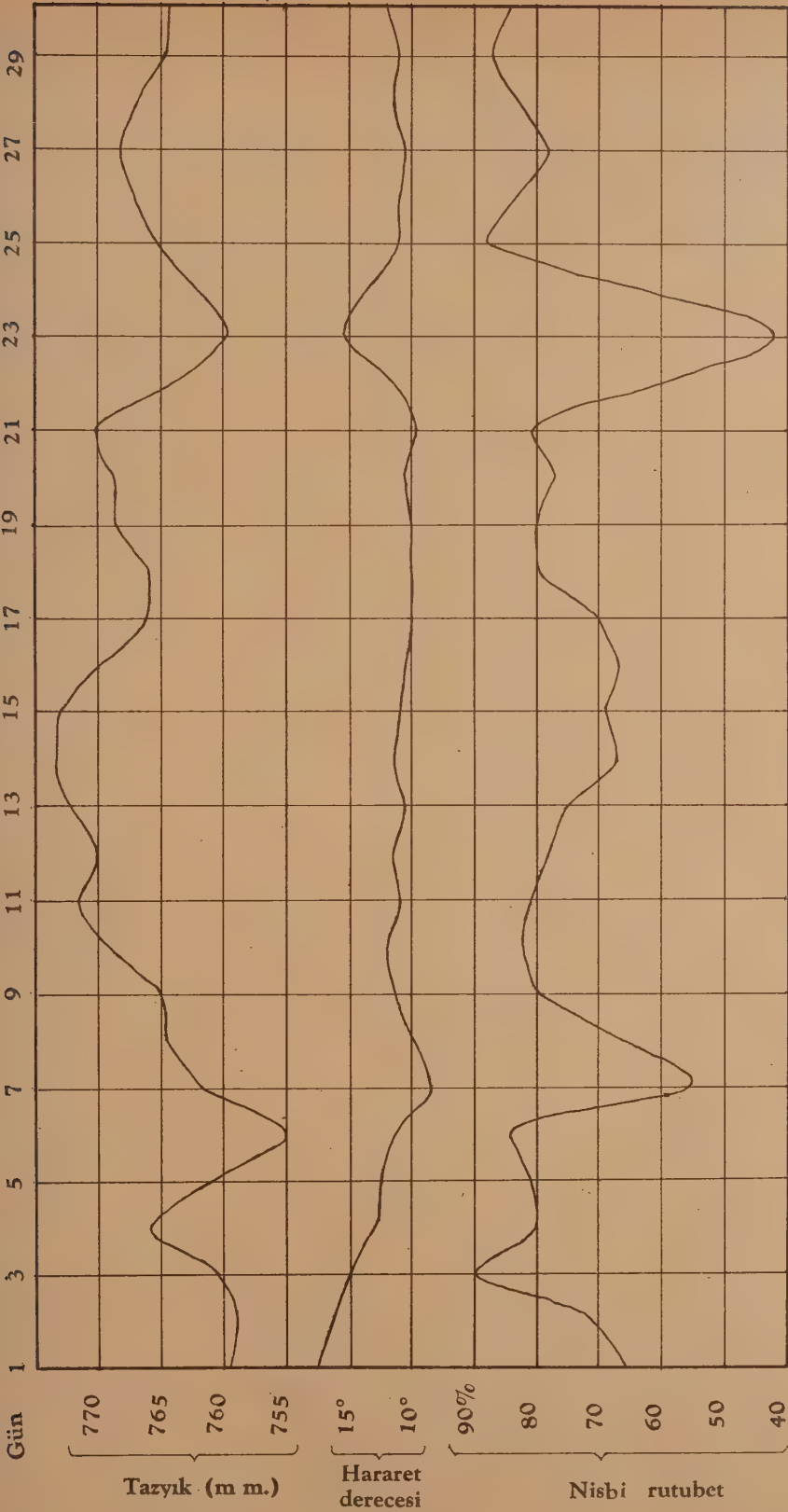
Aylar — Mais	Barometre 760 mm. + ...	Hava et derecesi C° — Temperature							Bağıl nem Humidité relative %	Çökerek Précipitation mm.
		Ortalama Moyen	Maksimum Maximum	Minimum Minimum	Mutlak maksimum Max. abs.	Tarih Date	Mutlak minimum Min. abs.	Tarih Date		
I	64.1	5.5	8.2	3.0	18.1	1-1920	— 7.5	27-1924	79	88.7
II	63.0	4.7	7.7	2.1	20.6	13-1925	— 13.0	9-1929	78	72.6
III	62.5	7.7	11.7	4.5	27.6	24-1937	— 7.3	4-1929	74	44.6
IV	60.1	11.4	16.0	7.6	30.0	26-1926	— 1.6	2-1931	72	41.7
V	60.3	15.5	20.2	11.6	33.8	19-1928	3.0	8-1915	74	42.0
VI	60.0	20.1	24.8	15.5	38.9	14-1912	8.3	6-1933	71	35.5
VII	58.6	22.6	27.2	18.4	39.2	6-1916	9.4	6-1933	71	33.5
VIII	59.1	22.7	27.3	18.6	36.8	14-1938	12.9	31-1930	71	36.5
IX	61.8	19.7	24.2	15.9	38.0	1-1938	6.0	28-1931	71	54.9
X	62.8	15.9	19.9	12.9	32.7	1-1927	0.3	30-1920	75	81.0
XI	64.0	12.0	15.3	9.5	27.3	13-1917	— 1.8	30-1914	77	98.4
XII	63.5	7.6	10.4	5.3	21.4	3-1926	— 8.9	24-1933	80	109.2
Toplam Total										740.4
Yıllık Annuelle	61.6	13.8	17.7	10.4	9.2	6-VII-1916	— 13.0	9-III-1929	74	



Tazyık, hararet derecesi ve nisbî rutubetin günlük grafikleri.

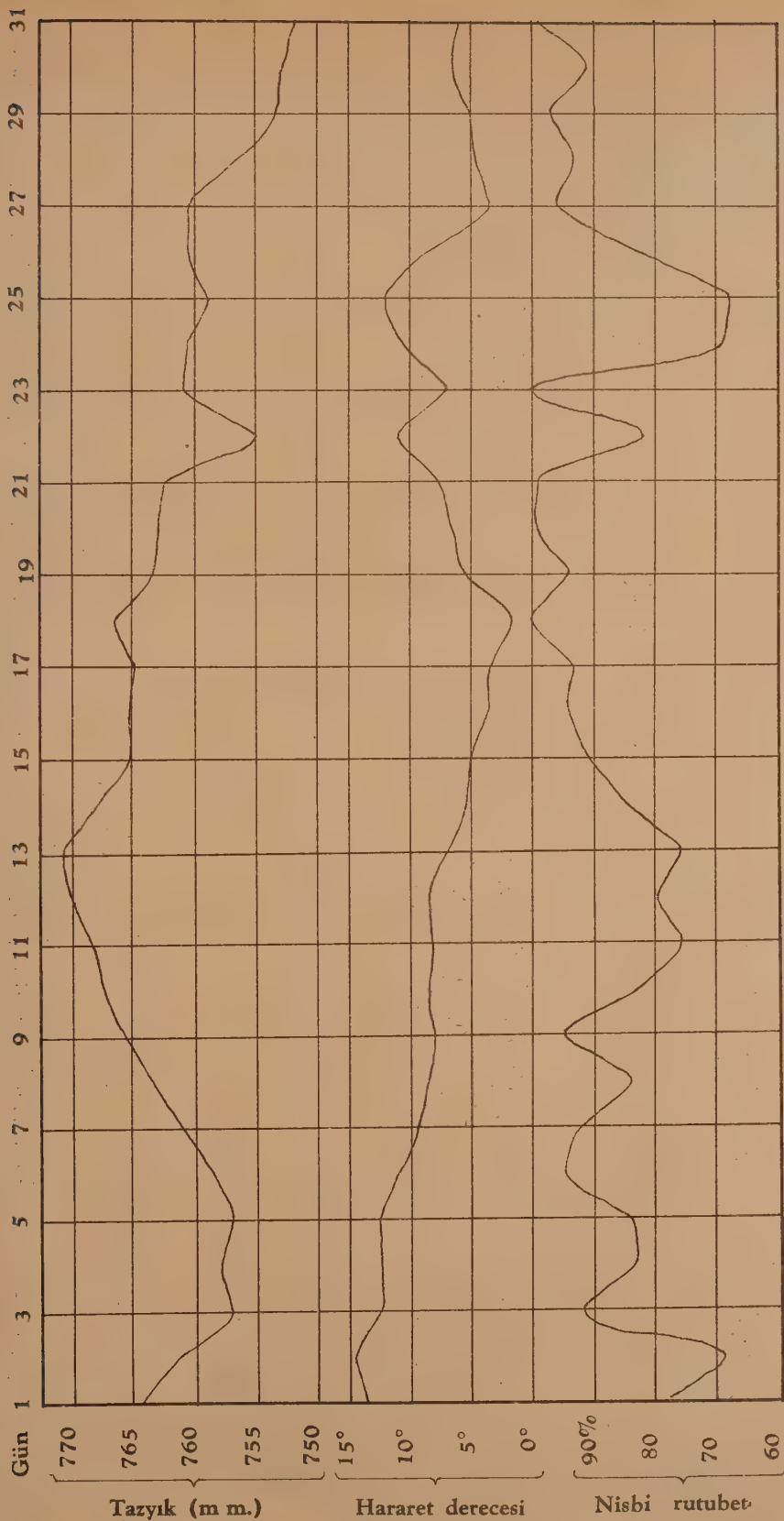
Graphiques de la pression, température et humidité relative diurne.

Kasım 1938 (Novembre)



Tazyık, hararet derecesi ve nisbi rutubetin günlük grafikleri.
Graphiques de la pression, température et humidité relative diurne.

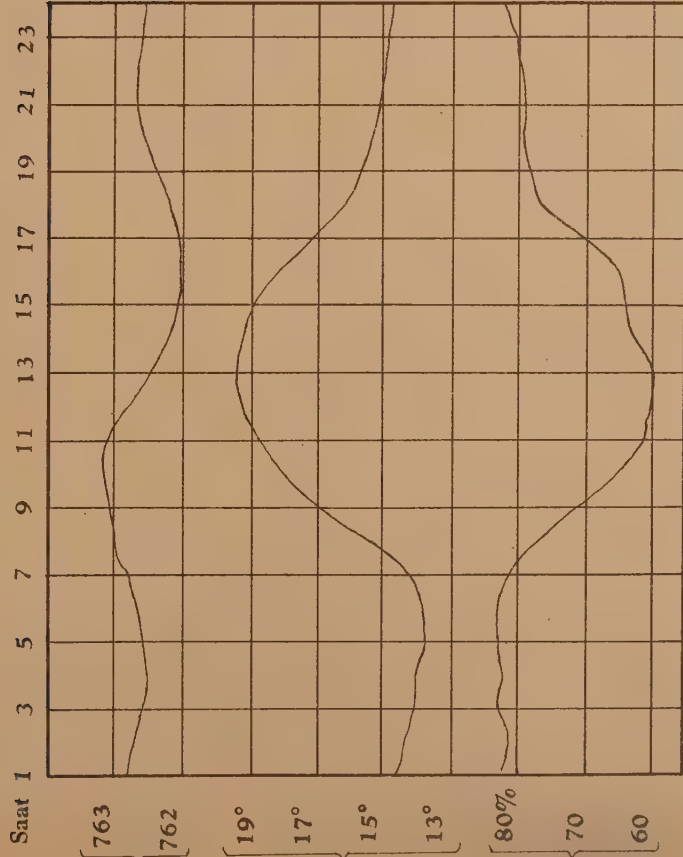
Aralık 1938 (Décembre)



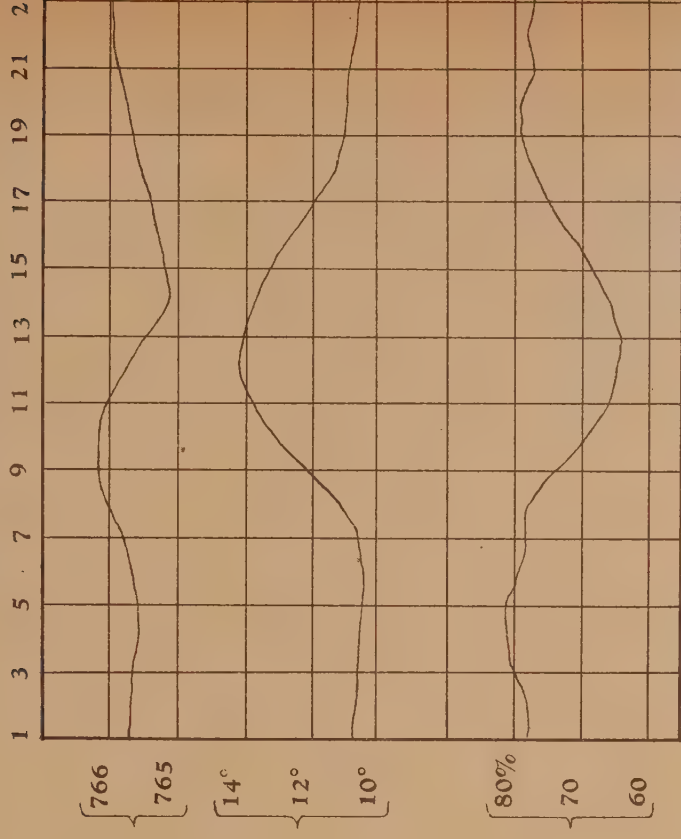
Tazyık, hararet derecesi ve nisbi rutubetin günlük grafikleri.

Graphiques de la pression, température et humidité relative diurne. horaire

Kasım 1938 (Octobre)



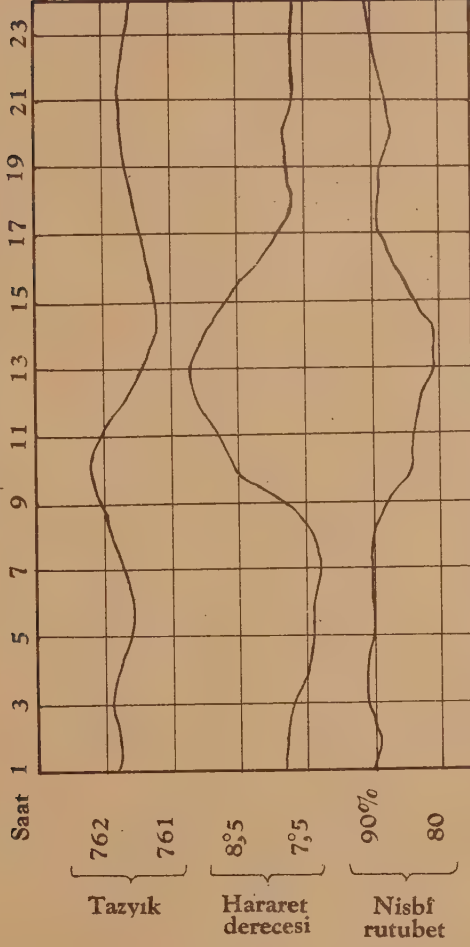
Ekim 1938 (Novembre)



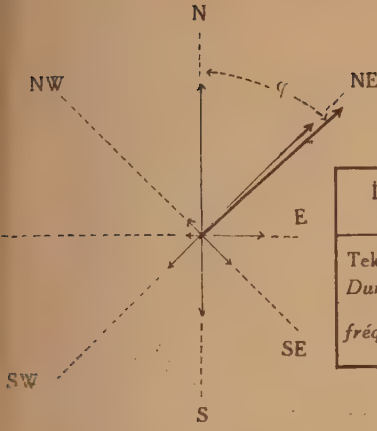
Tazyık, hararet derecesi ve nispi rutubetin saatlik grafikleri.

Graphiques de la pression, température et humidité relative horaire

Aralık 1938 (Décembre)



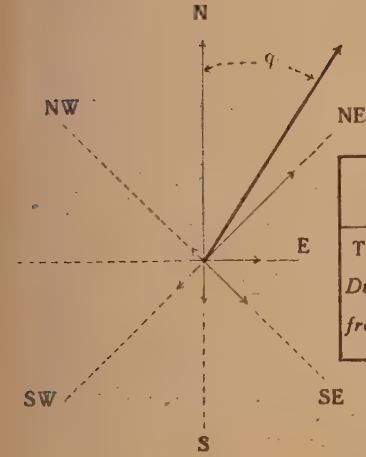
Tazyik, hararet derecesi ve nispi rutubetin saatlik grafikleri.
Graphiques de la pression, température et humidité relative horaire



Rüzgâr grafikleri
Graphiques du vent
Ekim 1938 (Octobre)

İstikamet		N	NE	E	SE	S	SW	W	NW	Sakin Calme	Yekûn Total
Tekessür Durée de fréquence	Saat h.	162	176	65	43	90	52	17	21	118	744
	%	22	23	9	6	12	7	2	3	16	100

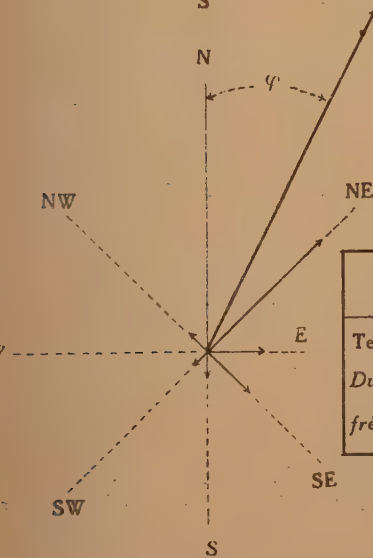
Galip istikamet $\varphi = 46^\circ$



Kasım 1938 (Novembre)

İstikamet Direction		N	NE	E	SE	S	SW	W	NW	Sakin Calme	Yekûn Total
Tekessür Durée de fréquence	Saat h.	240	135	60	61	42	46	7	17	112	720
	%	33	19	8	9	6	6	1	2	16	100

Galip istikamet $\varphi = 33^\circ$

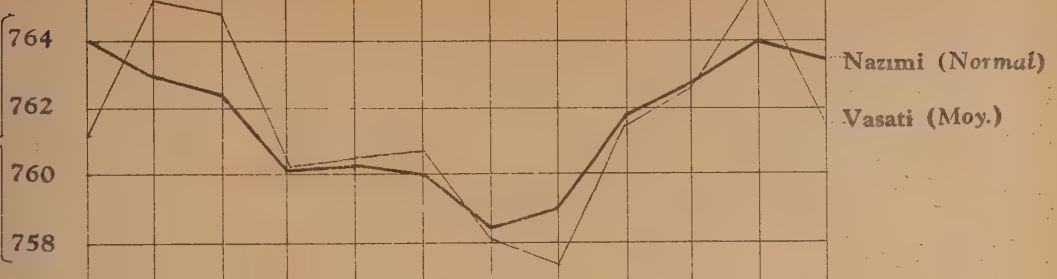
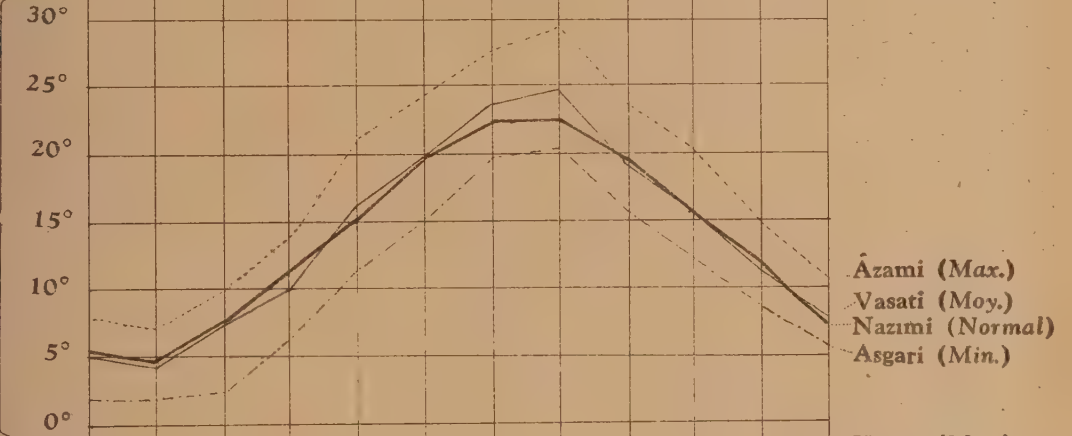
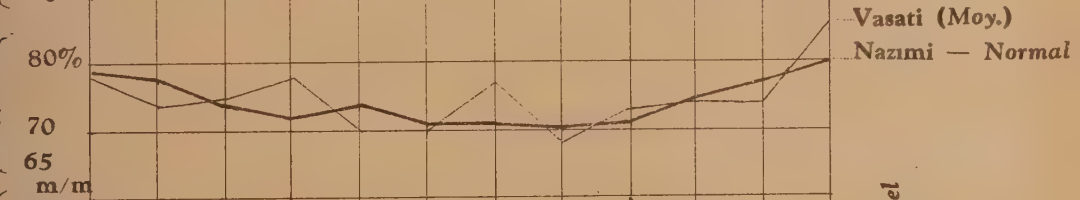
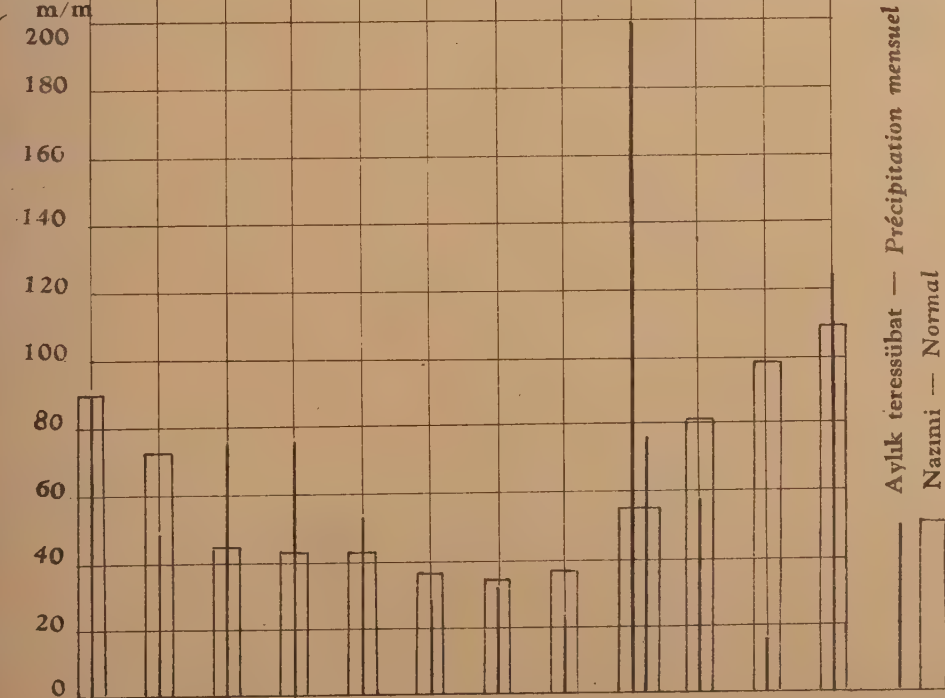


Aralık 1938 (Décembre)

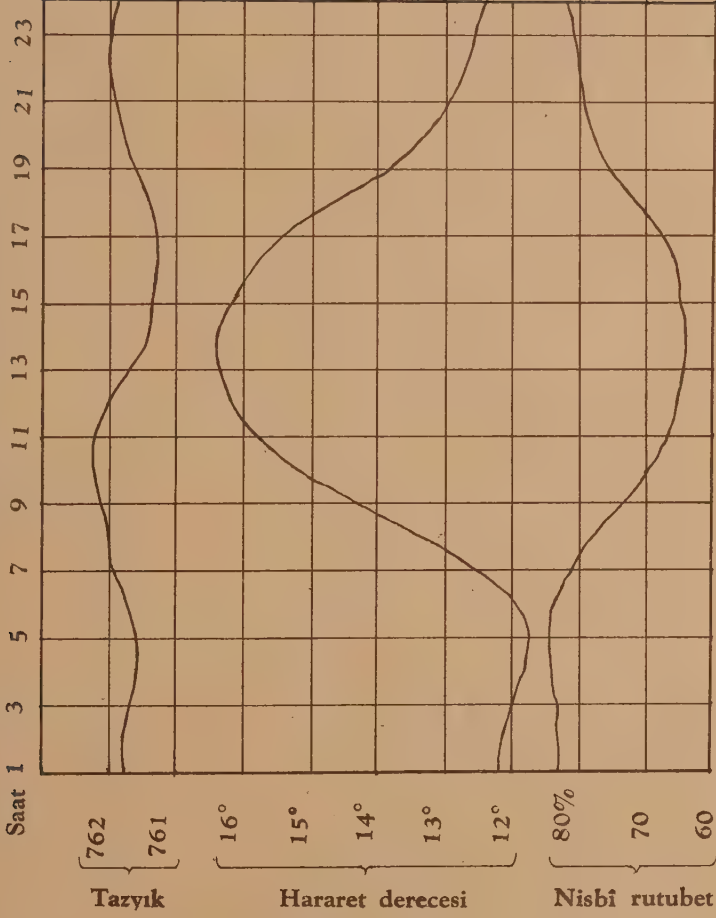
İstikamet Direction		N	NE	E	SE	S	SW	W	NW	Sakin Calme	Yekûn Total
Tekessür Durée de fréquence	Saat h.	306	179	59	60	25	23	2	26	64	744
	%	41	24	8	8	3	3	—	4	9	100

Galip istikamet $\varphi = 27^\circ$

I II III IV V VI VII VIII IX X XI XII

Tazyk (m m.)
PressionHararet derecesi
TempératureNis. rutubet
Hu. relativeTeresübat —
Précipitation

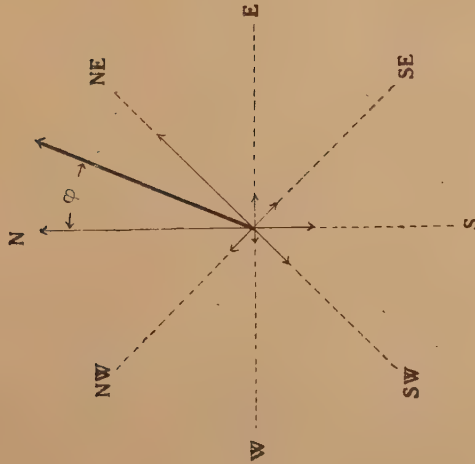
Yıllık vasatı 1938 (Moyenne annuel)



Tazyik, hararet derecesi ve nisbi rutubetin saatlik grafikleri.

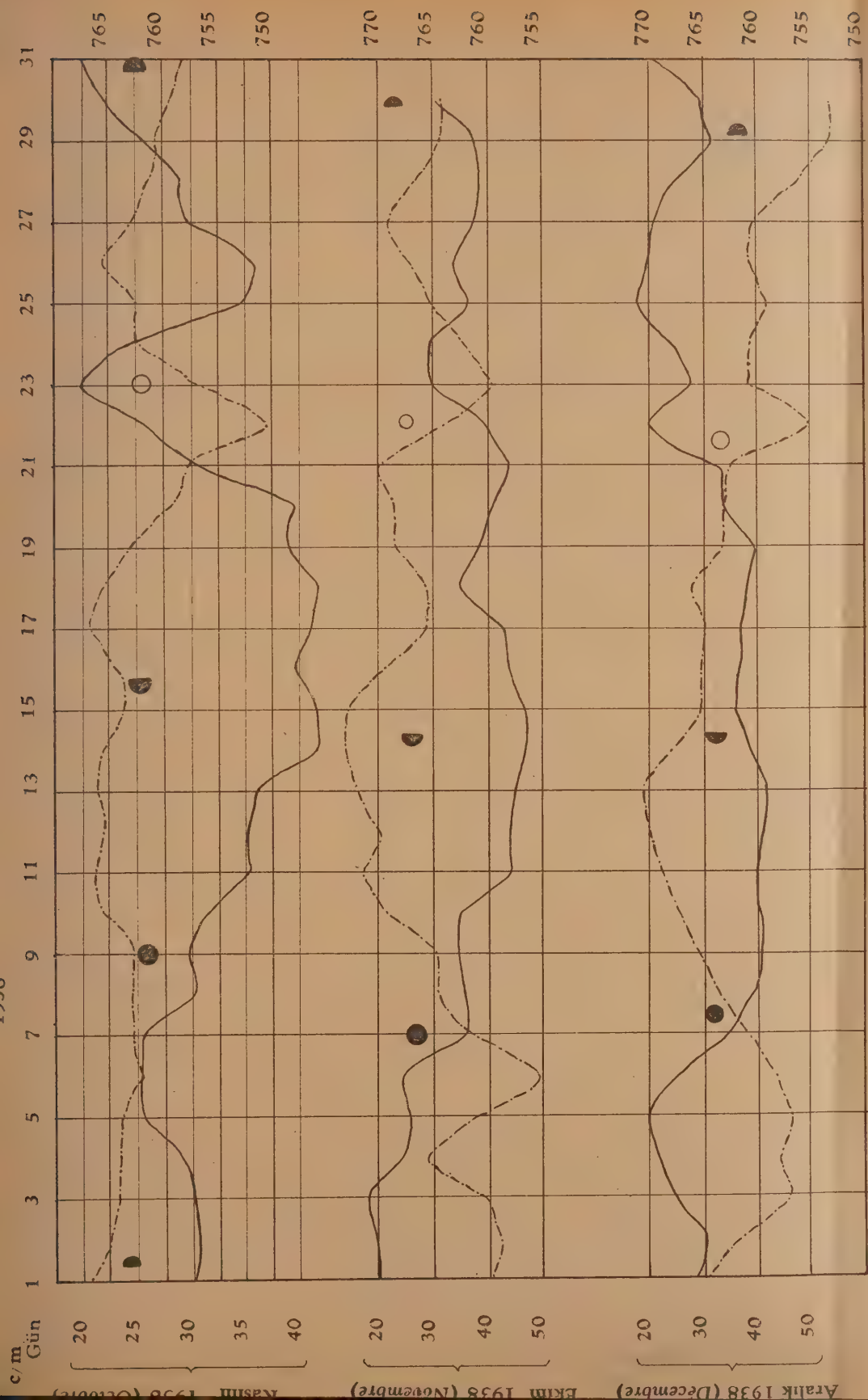
Graphiques de la pression, température et humidité relative horaire.

Rüzgâr grafiği
Graphique du vent
Yıl 1938 Année



İstikamet Direction									Sakin Calme	Yekûn Total
	Saat h.	N	NE	E	SE	S	SW	W	NW	
Tekessür Durée de fréquence		2805	1795	486	410	795	577	150	446	8760
	%	32	20	5	5	9	7	2	5	100

Galip istikamet $\varphi = 22^\circ$ No. 9



Not: — Deniz seviyesini barometre irifaini, soldaki adetler röperden aşağı deniz seviyesini, sağdakiler barometreyi gösterir.

— Indique le N. de la mer : La hauteur du baromètre, les chiffres à gauche indiquent le N. de la mer audessous du repère, les

chiffres à droit la hauteur du baromètre.

II — Deniz rasatları (Observations de la mer)

Kemal Erkman

Bitişik sahifedeki cetvel Arnavutköyündeki akıntı anafor mahallindeki maroğraf ile ölçülen deniz seviyesine aîl tahavvülâtı gösterir. Bu cetvelin başlık satırı aylar ve başlık sütunu da ayın günlerini gösterir.

Udul deniz seviyesinin, rıhtım üzerinde tespit edilmiş olan bir pirinç işaretin merkezinden itibaren alçalmadan ibarettir. Bu alçalma miktarı santimetre ile gösterilmiştir. Cetveldeki miktarlar udulların günlük vasatisidir. Son satır dahi aylık vasatidir. Maroğraf kaleminin irca nisbeti $1/5$ dir. Tabiidir ki cetveldeki hakiki kıymetler bu nisbete göre aletin diyagram iş'arından irca edilmiştir. Seviyei vasatiyenin nâzımı miktarı henüz taayyün etmemiştir. Maroğraf kâğıdının sıfırı, işaret merkezinden 168.2 santimetre yüksektir. 7 numaralı diyagram bu seviye tahavvülâtına aittir. Seviyenin başlıca tahavvülü tazyik tahavvülüne tâbi olduğundan mukayese için nokta ve çizgi ile tazyik tehavvülü tersim edildiği gibi meddicezir tesirini de takip edebilmek için içtima, istikbal ve terbilerin zamanları da gösterilmiştir.

D niz seviyesi ve s ıcaklık

Niveau et temp rature

G�nler - Jours Aylar - Mois	(cm) Udul Ecart			S�ıcaklık — Temp�rature					
				Ekim Octobre		Kasım Novembre		Aralık Decembre	
	Ekim Octobre	Kasım Novem.	Aralık D�cembre	m. 0	m. -15	m. 0	m. -15	m. 0	m. -15
1	30.1	19.9	28.3	—	—	—	—	—	—
2	31.2	19.7	30.7	—	—	—	—	—	—
3	30.4	17.9	24.5	—	—	—	—	—	—
4	28.3	24.1	21.4	—	—	—	—	—	—
5	26.1	26.6	19.7	—	—	—	—	—	—
6	25.9	23.9	25.2	—	—	—	—	—	—
7	26.3	35.2	34.6	—	—	—	—	—	—
8	30.8	35.9	39.0	—	—	—	—	—	—
9	29.2	34.5	40.2	—	—	—	—	—	—
10	33.4	34.6	40.7	—	—	—	—	—	—
11	35.7	43.9	39.6	—	—	—	—	—	—
12	35.1	43.7	40.7	—	—	—	—	—	—
13	37.0	44.4	41.2	—	—	—	—	—	—
14	43.6	46.8	38.5	—	—	—	—	—	—
15	43.4	46.7	35.8	—	—	—	—	—	—
16	39.1	43.4	36.4	—	—	—	—	—	—
17	42.3	42.8	36.4	—	—	—	—	—	—
18	43.7	34.5	37.9	—	—	—	—	—	—
19	38.0	38.3	39.0	—	—	—	—	—	—
20	39.6	40.7	33.7	—	—	—	—	—	—
21	32.2	43.8	32.6	—	—	—	—	—	—
22	27.5	39.7	19.9	—	—	—	—	—	—
23	20.0	29.3	27.4	—	—	—	—	—	—
24	29.0	29.0	24.5	—	—	—	—	—	—
25	35.0	36.4	17.3	—	—	—	—	—	—
26	37.2	33.9	19.1	—	—	—	—	—	—
27	30.0	37.9	20.9	—	—	—	—	—	—
28	28.3	38.5	24.7	—	—	—	—	—	—
29	27.0	37.6	31.5	—	—	—	—	—	—
30	24.2	30.7	29.2	—	—	—	—	—	—
31	20.7	—	21.3	—	—	—	—	—	—
Ortalama	32.3	35.4	30.7	—	—	—	—	—	—

Maroğrafın sistemi : Jules Richard
(Syst me du marographe)

Red kt r : 1/5
(Reducteur)

Merkii : Arnav tk y
(Station)

Reper : R hl ndaki piring dairinin merkezi
(Rep re) : Le centre du disque en laiton fix  au quai

Termometrenin cinsi : Negr ti zambra
(Type du thermom tre)

Rasat mahalli : Kandilli iskelesi
(Lieu d'observation)

İZAHAT — REMARQUES

III — Sismoloji (Séismologie)

Kemal Erkman

Bitişik sahifeler zelzeleleri ve bunların asli ve tali safhalarının zamanlarını gösterir. Titrenti (Microséisme) ler dahil değildir. Cetvelin birinci sütunu tarih ve ikinci sütunu beynelmilel kabul edilmiş olan safha işaretleridir. Bu işaretlerden P_n veya $\bar{P}$ ihtizazın başlangıcını, F nihayetini ve iM de en şiddetli ihtizaz safhasını iş'ar eder. Üçüncü sütun da Türkiye saatiyle safhaların zamanlarıdır. Dördüncü sütunda N-S mürekkibesinden alınan en büyük sianın devir müddeti gösterildiği gibi beşinci, altıncı ve yedinci sütunlarda en büyük sia miktarı milimetre olarak gösterilmiştir. A_N şimal-cenup mürekkibesine, A_E şark-garp mürekkibesine aittir. Tahmin edilen fevkalmerkez mesafe Δ ile son sütunda kilometre ile gösterilmiştir. Ve mülâhazat hanesinde de hâdisenin vuku bulunduğu istihbar edilen mahal -icap ederse coğrafi vaziyetleriyle beraber- kaydedilmiştir. Eğer hâdisе memleket dahilinde ise icap eden umumî karakteri de ilâve edilmiştir. Kayıtlar Galitzin sistemi sismoğrafından alınmıştır. Eğer diğer aletlerden alınmış ise mülâhazatəpəşəuəq ayrıca gösterilmiştir.

Sismoloji rasatları — (Observations sismologiques)

Aletin sistemi (Système du sismographe): Galitzin

Tarih Date	Fazlar Phases	Zamanlar h. m. Sec	N—S Bileşeninde Period Sec	A _N mm.	A _E mm.	A _Z mm.	Δ km.	MULÂHAZAT Remarques
Ekim Octobre 1938								
2	P _n PS PPS F	18.56.33 19.11.42 15.09 19.44.—	—	—	9,5	5,0	13.600	
7	P̄ PR ₂ S _c P _c P S SR ₂ F	03.15.27 19.55 23.58 42.29 05.30.—	5,0	4,5	9,0	2,5	13.800	
8	P _n S _n SR ₁ F	02.34.14 42.50 47.31 04.12.—	9,5	8,5	20,6	6,5	6.900	
8	P̄ S̄ F	19.22.41 23.05 19.26.—	3,5	22,0	4,5	11,0	190	
9	P _n S _n SR ₁ F	18.56.22 19.03.02 09.51 21.03.—	5,0	3,0	5,0	7,0	7.200	
10	P _n S _c P _c S S F	23.01.24 11.53 13.48 01.51.—	12,0	97,0	126,0	43,5	18.000	
11	P _n F	02.31.46 03.38.—	5,0	3,0	8,5	3,0	12.000	Repliktir
12	P _n PR ₁ PR ₂ S _n eL F	02.46.30 49.31 51.20 56.44 03.19.20 05.21.—	12,0	53,0	70,0	35,0	8.700	Japonyada

Tarih Date	Fazlar- Phases	Zamanlar h. m. Sec	N—S Bileşeninde Period Sec	A _N mm.	A _E mm.	A _Z mm.	Δ km.	MÜLÂHAZAT Remarques
Ekim Octobre 1938 13	P _n S _n eL F	17.38.00 46.48 18.10.— 19.53.—	7,0	7,0	7,5	4,5	7.800	Şimali Filipinlerde
19	P _n PR ₁ S _n SR ₁ L F	06.21.24 23.00 27.48 30.53 41.48 08.33.—	12,0	61,0	55,0	43,0	4.800	Altay dağlarında
20	P _n PR ₁ S _n SR ₁ L F	04.33.12 36.58 42.31 51.00 05.00.52 07.27.—	9,5	49,0	96,0	28,0	9.400	Timur adalarında
20	P _n S _n SR ₁ F	16.26.46 34.42 41.20 16.27.—	11,0	13,5	24,5	8,5	6.100	
21	P _n PR ₁ S _n SR ₁ F	22.33.32 35.24 40.41 40.05 24.05.—	14,0	20,0	16,0	14,0	6.100	Hint okyanusunda
23	P _n PR ₁ S _n F	17.11.25 13.45 19.37 18.33.—	7,0	13,0	—	8,0	6.900	Madagaskarda
29	P _n PR ₁ S _n L F	15.20.49 24.00 31.00 59.24 16.57.—	6,5	6,5	—	3,5	8.900	Japonyada
Kasım Novembre 1938 3	P _n R, PS ₂ RS ₃ F	05.52.00 54.05 55.16 06.25.—	11,0	45,0	19,0	—	1.100	

Tarih Date	Fazlar Phases	Zamanlar h. m. Sec	N—S Bileşeninde Period Sec	A _N mm.	A _E mm.	A _Z mm.	Δ km.	MÜLÂHAZAT Remarques
Kasım Novembre 1938 5	eP _n P R ₁ S _n eL F	10.55.52 58.58 11.06.00 31.— 12.10.—	8,0	171,0	210,0	167,0	8.870	Tahripkâr Japonyanın şarkında
5	P _n P R ₁ S _n P S F	13.02.44 05.55 12.52 13.36 15.50.—	8,0	165,0	198,0	173,0	8.870	Diğerinin repliğidir.
6	iP _n P R ₁ S _n eL M ₁ M ₂ F	11.06.23 09.29 16.36 41.— 50.00 11.52.20 14.45.—	7,0	144,0	161,0	190,0	8.900	Tahripkâr Japonya Pasifiklerinde
6	P _n S _n eL iM F	23.51.52 00.01.35 26.— 34.10 01.25.—	10,0	173,0	99,0	100,0	8.900	Japonya Pasifiklerinde
7	iP _n P R ₁ M ₁ F	21.46.08 49.09 22.26.20 23.05.—	13,0	24,0	26,0	16,5	9.000	Japonya Pasifiklerinde
9	P _n P R ₁ S _n F	11.28.43 31.40 38.46 13.20.—	12,0	76,0	37,0	15,0	9.000	Japonya Pasifiklerinde
10	P _n P R ₁ S _n S R ₁ F	12.59.24 13.02.42 09.48 15.12 14.09.—	13,0	26,0	45,0	18,0	9.000	Japonya Pasifiklerinde
10	P _n P R ₁ S _n S R ₁ S R ₂ F	22.31.45 34.58 42.20 48.02 50.36 01.28.—	10,0	178,0	148,0	—	9.200	Alaska cenubunda

Tarih Date	Fazlar Phases	Zamanlar h. m. Sec	N—S Bileşeninde Period Sec	A _N mm.	A _E mm.	A _Z mm.	Δ km.	MÜLÂHAZAT Remarques
Kasım Novembre 1938 11	e F	11.06.— 12.18.—	—	—	—	—	—	Çok uzak ve hafif
11	P _n S R _s 2 S F	18.50.00 51.36 52.00 19.05.—	12,0	34,0	7,5	9,5	600	
12	e P _n PR ₂ S _n eL F	17.01.42 08.15 12.36 39.42 19.05.—	12,0	27,0	9,5	12,0	10.300	Kur l adalarında
13	P _n PR ₂ S _n L F	15.25.07 31.00 36.00 16.04.30 16.35.—	11,0	39,0	42,5	20,0	10.300	Kuril adalarında
14	P _n PR ₁ PR ₂ S _n L M F	00.44.12 47.53 50.14 55.40 01.27.00 28.03 03.30.—	14,0	105,0	71,0	83,0	10.800	
15	e F	12.03.— 13.07.—	—	—	—	—	—	Çok uzakta ve hafif
15	e ? F	17.45.— 18.33.—	15,0	6,0	—	3,0	—	Çok uzakta ve hafif
15	P _n PR ₁ S _n SR ₁ M F	23.12.45 15.43 23.33 27.00 45.05 01.02.—	14,0	40,5	91,0	26,5	9.100	Sumatra cenubunda
18	P _n R _s 2 P R _s 2 P ₃ S ₂ F	05.52.00 53.24 54.34 06.09.—	9,0	20,5	25,0	—	1.660	

Tarih Date	Fazlar Phases	Zamanlar h. m. Sec	N — S Bileşeninde Period Sec	A _N mm.	A _E mm.	A _Z mm.	Δ km.	MÜLÂHAZAT Remarques
Kasım Novembre 1938								
19	P _n PPS SR ₂ F	07.51.30 08.07.48 18.00 09.50.—	8,0	199,0	227,0	7,0	13,800	Çok şı detli
25	P _n F	08.33.19 09.47.—	—	—	—	—	—	Hafif
30	P _n PR ₁ PR ₂ S _n eL F	04.42.54 45.58 47.54 53.02 05.16.— 05.34.—	—	—	78,0	29,0	8.800	J. poryanın şarkında
Aralık Décembre 1938								
2	e ? e ?	13.30.— 16.07.—	— —	— —	— —	— —	—	Uzak ve hafif » »
3	P _n S _n F	14.24.42 34.47 15.45.—	7,0	21,0	22,0	12,0	8,900	
7	P _n PR ₂ S _n F	01.12.47 15.32 22.33 02.24.—	17,0	28,0	49,0	22,0	8.700	
7	e ?	16.44.—	16,0	28,0	29,0	9,0	—	Çok uzak ve hafif
13	e ?	20.09.—	—	—	—	—	—	Çok uzak ve hafif
16	P _n PR ₁ PR ₂ F	20.34.39 38.33 40.47 21.—.—	20,0	68,0	37,0	11,0	10.800	
16	P _n S _c P _c S S _c P _c P S P S F	15.21.18 41.34 42.33 46.13 16.—.—	—	—	60,0	—	12.400	

